# A Comparative Analysis of Islamic vs. Conventional Banks and Financial performance in context of Malaysian Banks. 

By<br>Farhana Chowdhury

A Major Research Project Submitted to Saint Mary‘s University, Halifax, Nova Scotia in Partial Fulfilment of the Requirements for the Masters of Finance program

September $4^{\text {th }}$, 2013, Halifax, Nova Scotia

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Written under the Direction of Dr. J Colin Dodds

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Date: $\quad$ September 4th, 2013

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## Declaration

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#### Abstract

A Comparative Analysis of Islamic vs. Conventional Banks and Financial performance in context of Malaysian Banks.

\section*{By}

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The objective of this study is to evaluate the comparative financial performance of Islamic and conventional banks. To undertake a rigorous comparative study, profitability, liability and liquidity ratios of Islamic banks and conventional banks were used during the period from 1995 to 2009. Banks are selected on the basis of almost having equal weights of invested capital. Financial products offered by Islamic banks are also compared to conventional banks products for better understanding of the institution. A paired sample t-test is used which shows that Islamic banks have high growth rates and profitability over the conventional banks. Moreover the Islamic banks have high liquidity power over conventional banks.


## Executive summary

Islamic Banking mechanism magnifies in a way that it can be reached to even small investors who are, generally, unable of doing trades or do not have the time to do so. They also act as managing companies based on PLS (Profit -Loss - sharing) system. However, these profits would only be earned and blessed if the Islamic Banks follows all the Sharia's prescriptions and proscriptions that are related to Finance and are also related to ethical considerations. Through comprehensive analysis there was a discovery that Islamic banking weathered the financial crises of the past including the financial crises of the past, including the 2007-2009 crisis. By analyzing the potential interface between Islamic and conventional banks in the Malaysian banking system, this study was keen to present constructive information for stakeholders to make superior investment decisions and to help both conventional and Islamic banks to mark and re-evaluate their performance based on their level of liquidity, profitability and financial performance. Also, this study hopes to provide significant views on product composition of Islamic banks and how they are pegged with conventional banks.

## Acronyms

| PLS | Profit -Loss- Sharing |
| :--- | :--- |
| IDB | Islamic Development Board |
| Ijarah | Leasing |
| Sukuk | Bond |
| Takaful | Insurance |
| GDP | Return on asset |
| ROA | Return on Equity |
| ROE | Loan to deposit ratio |
| LTD | Loan to asset ratio |
| LAR |  |

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## Chapter -1

## 1. Introduction:

Islamic banking or the interest free banking system has caught the attention of analysts and academics for the past few years. It was the 2007-2008 financial crises that brought the spot light on this type of banking system. The recent global financial crisis has not only shed doubts on the proper functioning of conventional " Western" banking, but has also increased the attention on Islamic banking as some observers have pointed to its superior performance during the crisis (Hasan and Dridi, 2010).

Many countries, especially Middle East and Asia are presently experiencing what is known as a "dual banking" system, where interest free banks are operating alongside has become conventional banks. The country which enjoyed a dual baking system is the United Arab Emirates where the Dubai Islamic banking was established in 1973 with paid up capital of US\$14 million (Metwally, M.M 2012). These banks perform normal business as any conventional banks, but do not pay or receive any interest. The organization operates on Profit-Loss sharing principles based on the Islamic law (known as Shariah law) ${ }^{1}$. Furthermore Shariah law prohibits Muslims from taking or offering riba. ${ }^{2}$ On the other hand, conventional banking is based on the debtor-creditor relationship between the depositors and the bank on one hand, and between the borrowers

[^0]and the bank on the other. Interest charged is the price of credit which reflects the opportunity cost of money.

Islamic banks are thus significantly different from conventional banks that are constructed on one component recognized as riba (interest). Sharia compliant products cannot charge interest payments (riba), as only goods and services are allowed to carry a price. Moreover speculation and gambling is prohibited and relies on a PLS (profit- losssharing) principle. As a result, both the liability and asset side of the balance sheet emphasises that all transactions should be backed by tangible assets.

However, in practice, Islamic scholars have developed products that resemble conventional banking products, by replacing interest and discounting with fees and a contingent payment structure. Chon and Liu (2009), for example, found that in Malaysia, only a small portion of Islamic bank financing is based on profit- loss sharing and that Islamic deposits are not interest-free, but closely pegged to conventional deposits. Finding confirmed by Khan (2010b) for a sample of large Islamic banks across several countries.

### 1.1 Impacts of economic and demographic changes:

Increasingly investors are interested in the functionality of the Islamic banking system for its growing trends in the monetary sector. In the past decade, the world's economic centre of gravity has begun to tip in favour of developing economies. Experts such as the leading fund manager, Antoine van Agtmael, have predicted that the combined GDP (Gross National Product) of emerging markets will go beyond that of developed economies within 30 years. Already the developing economy consists of $75 \%$ of the world's foreign exchange reserves.

At the same time, there has been a demographic change, with an increase in the population of Muslim countries at the expense of developed markets where populations are stagnating or falling. There are now approximately 1.6 billion Muslims worldwide, comprising $24 \%$ of the total world's population. These Muslim populations are increasingly looking for financing tools which comply with the code of belief of Islamic (Sharia) law, while offering the flexibility and range of traditional banking products. Choosing Sharia-compliant products has become a means for many Muslims to provide their Islamic identity.

### 1.2 Opportunity:

Islamic banking is now one of the world's fastest-growing financial systems, consisting of over 300 organizations in more than 75 countries. Currently a $\$ 400$ billon market, it is expected to grow to $\$ 4$ trillion over the next 5 years according to Standard \& Poor's analysis. While Islamic banking is intense in the Middle East and South-East Asia (with Bahrain and Malaysia representing the largest hubs), it is also emerging in Europe, and the United States, Russia and in countries where there are huge Muslim minority populations.

There is considerable room for growth as well, particularly in Asia, where a large number of Muslim populations exist and there is a very low coverage by Islamic banks. In Indonesia, with a Muslim population of 195 million, only $1.2 \%$ of total banking assets are under Islamic Finance. India, Pakistan and Bangladesh have 439 million potential customers, but less than $10 \%$ of the market in each case has been tapped into by the banks offering Sharia-compliant products. Even in the Middle East and North Africa,
considered as the home for Islamic banking, there is limited access to Islamic banking. So there is a huge opportunity in this sector, particularly with the population growth of the Muslim world versus the global population.

Islamic Banking is not, however, necessarily confined only to Muslims. It has been recently argued that the tenets of Islamic Banking can be applied to a wider population, and that the principles offer safeguard which might resist the unrestrained behaviour of individuals who caused the sub-prime crisis and frauds.

### 1.4 Rationale behind the study:

This paper will try to evaluate the comparative financial performance of Islamic and conventional banks. To make an appropriate comparative study, profitability and liquidity ratios of Islamic banks and conventional banks are used during the period from 1995 to 2009 constructed from balance sheet and income statement data. Due to the time constraint and data availability, only Malaysia was chosen for study purposes.

Malaysia has also been praised for being a global centre for Islamic finance, with a facilitative regulatory framework and targeted incentives. This is especially true for Islamic banking, bonds (Sukuk) and Insurance (Takaful). Malaysia is also a global leader in Sukuk issuance among Islamic nations. The country has a comprehensive banking system which consists of commercial banks, merchant's banks, foreign conventional banks and Islamic banks. The following study will only focus on conventional and Islamic banking systems. A paired t- test has been conducted for this study.

The remainder of the paper is structured as follows. Chapter 2 will review some of the relevant literature regarding Islamic banking. The review has been aptly divided into three segments, the first discussing the theories of Islamic banking, followed by the basis of interest-free banking and characteristics of the emerging Islamic financial system and a comprehensive coverage of Sharia compliant products.Chapter-3 will focus on a literature review as well as a coverage of data and methodology while variable analysis are covered in Chapter 4. Chapter-5 provides a summary and the results. Recommendations are covered in Chapter 6.

## Chapter-2 Islamic Banking

### 2.1 Theories of Islamic banking:

Changes in Islamic banking will continue as a result of the evolutionary process through which it is going. While it is not possible to pin down an exact definition for Islamic banking, this is also the case for conventional baking which is already mature after a long period of growth and continues to develop with changing circumstances. Nevertheless, it will offer a better understanding of Islamic banks if they are cautiously defined within the modern context as depository institutions whose core business is of PLS (Profit and loss Sharing) and sales-based modes of financing.

Islamic Finance is governed by Sharia (Islamic law), which is sourced from the Qur'an and Sunnah. The key ideology of Islamic financing is the prohibition of interest, the principle being that it is improper to increase the value of any commodity purely by lending it to another person. Sharia law also prohibits Masir (speculation) and gambling transactions, Gharar. The latter is the uncertainty about the terms of contract or subject
matter (prohibiting, for example, selling something which you do not own), and investing in businesses which are considered unlawful or undesirable e.g. alcohol, drugs, gambling.

Usually "In Islamic contracting, gharar (uncertainty and risk) is not permitted i.e., the terms or contracts should be well defined and without any ambiguity. ${ }^{3}$ The prohibition of Gharar is designed to prevent the weak from being exploited and thus the zero- sum game in which one gains at the expense of another is not sanctioned." As a result gambling and derivatives such as options and futures are not allowed because of the prohibition of gharar.

### 2.2 Basis of interest free banks:

Interest-free banks were established to comply with Islamic law that prohibits interest on all types of loans (personal, commercial, agricultural, industrial etc) whether these loans are made to friends, private or public companies or governments or any entity. The essential principle of interest free banking is profit/ loss sharing. It means both supplier and borrower shares the risks for the capital; both prosper when returns are favourable and suffer together when returns are poor. This is the basis for what became known as "interest- free banks".

According to the IDB (Islamic Development Board) ${ }^{4}$ Islamic banks are under an obligation to seek approval about the Islamicity of their products and also a license about all their operations being in compliance with Shariah. While it is beyond doubt of the responsibility of the Shari'ah boards to perform the former task, it may be difficult for them to do justice on the second task, which demands a review of all the different

[^1]transactions of the banks to ensure that they are in compliance with what the Shari'ah board has specified.

Islamic banks maintain three kinds of accounts

- Current account or deposit account,
- Investment account
- Savings account.
"The current account of Islamic banks is similar to current account of conventional banks. In investment account, capital is not guaranteed and investors agree in advance to share profit or loss at an agreed ratio. Finally, savings account is operated in several ways. In some systems, initial deposit is guaranteed and profit is also shared and in some places capitals are not guaranteed by banks and it is treated as investment account and banks only invest in risk-free projects. Hence, depositors get lower rate of profit. Moreover, Islamic banks also provide services such as money transfer and bill collection. The traditional modes of Islamic trading system still dominate the bank transactions, which may be broadly classified as trade based (Buyer-Seller relationship and Co-ownership), rental based (Lessor-Lessee relationship) and equity based (Partnership and Joint Venture relationship). These modes are also structured in the form of Islamic bond (Sukuk) and Islamic insurance (Takaful)."


### 2.3 Characteristics of emerging Islamic financial system:

The major characteristics of Islamic financial system are as follows-
(i) The liability side of Islamic banks' balance sheet has two types of deposits in addition to shareholders' equity:

Investment deposits: Organized on the basis of profit and loss sharing principle as well as the different sales- based modes of murabhah ${ }^{5}$, ijarah, ${ }^{6}$ istisna ${ }^{7}$ and salam ${ }^{8}$ on assets ${ }^{\prime}$

[^2]side. Even the sales based mode has same risk, but not much as PLS modes. The involvement of investment depositors in the risk of banking is unique to Islamic banking. However the risks of banking can, and should, be minimised through a proper management of banks under suitable regulatory and supervisory framework.

Demand deposits: It does not participate in profit loss sharing principle and debts are owed by banks in which, their repayments must be fully guaranteed. This is also unique to Islamic banks, principally if concept of bailing in becomes accepted in international banking.
(ii) They provide all the normal banking services which conventional banks are expected to perform.
(iii) They also maintain, like another conventional banks, a banking book and trading book.
(iv)The sales based mode used is to create debt, just like the interest based credit of conventional banks. However, unlike the conventional banks, Islamic banks are not yet allowed by juristic verdict to trade in debt. Once they have gained debt instrument, it stays with them until maturity.
(v) Requires collateral for extending finance just like conventional banks. However they cannot rely on it heavily because of risk-sharing and therefore they will be under an obligation to carry out careful evaluation of the risk involved.
does not allow a person to sell what he does not possess. As against salam, the price here need not to be paid in advance. It may be paid instalments in steps with preferences of the parties or partly at the front end and balance later on as agreed.
${ }^{8}$ Payments are made in advance by the buyer and delivery of goods deferred to the general Shariah ruling that you cannot sell what you don not owe or possess.

### 2.3 Sharia compliant products:

There are five major principles on the basis of which Islamic and conventional finance can be differentiated. There are prohibitions on riba (interest or excessive interest), prohibitions on gharar (speculation) and prohibitions on financing illegal sectors (weapons, drugs, alcohol, pork).The principle of the profit/loss sharing and the principle that all transaction must be backed by tangible good are foundations and tenets for the system Over the years lots of products have been invented that comply with the shariah and risk sharing criteria.

Islamic products will be discussed descriptively on how they work according to shariah law. Money is considered only as a medium of exchange not like conventional banks where money is traded as a commodity.

The following products are based on partnership loans between banks and borrower-
2.4 Mudarabah: One of the most well known profit-loss sharing agreement. It is an agreement between two or more persons whereby one or more of them will provide entrepreneurship and management to carry on any business venture whether trade industry, or service, with the objective of earning profit. The profit is shared by them in an agreed proportion. The loss is borne only by financiers in proportion to their share in total capital. The entrepreneur's loss lies in not getting any reward for his or her service.
2.5 Musharaka: An Islamic financing technique whereby all partners share equity as well as management. The profits can be distributed among them in accordance with agreed ratios. However, losses must be shared according to their share in equity.
2.6 Mudarabah and Musharaka: Combination of Mudarabah and Musharakah where one transaction takes place under which an entrepreneur has invested capital along with his management skills. Under this mode entrepreneurs not only benefit from the profit, but also entitled for the percentage of profit for sharing entrepreneurial skills. In this case the partner's ratio of profit should not be more than the proportion of investment.

This process is also maintained the deposit side without predetermined fixed return but simply based on profit-loss- sharing principle. Such investment deposits are thus linked to banks' profit levels or to a specific investment account. Thereby depositors are the residual claimant rather than creditors of banks.

The financial products which are based on leasing contracts like conventional banking are as follows-
2.7 Murabahah: The general kind of sale known as "Murabahah" or most commonly known as the "cost-plus" transaction under which seller discloses the actual cost together with freight and custom duty of a commodity to the purchaser and later agrees to sell the commodity on a certain profit added to his cost. It also resembles a leasing contract like conventional banking. By involving in purchase of the good and not making a return on lending. The method of transaction should follow certain rules that are similar to general sale. The approach can also be used where the client needs funds to actually purchase some commodities and not for other purposes like paying the price for already purchased commodity or paying electricity bill. Besides, Murabahah is possible for existing goods and not for future goods and the goods that has some real or intrinsic value measurable in monetary terms.
2.8 Ijarah: Banks keep the ownership of the investment goods and rent it to the client for a fee or feasible transaction amount according to be shariah compliant. In the present context, Ijarah is related to benefits of assets or properties and signifies the transfer of benefits for a fixed period in exchange for certain rent or price. The conditions for valid Ijarah are similar to general lease. Instead of giving as interest-bearing loan, some banks, especially in Western countries lease out equipment to their customers. Banks calculate the total cost they have incurred in the purchase of the assets and add the stipulated interest they could have claimed and replace the latter with monthly rental during the lease period.

On the deposit side, one can differentiate between non-reward demand deposits (amanah or qard), considered as depositors' loans to the bank. Thus similar to the demand deposits in many conventional banks around the world-and savings deposits that do not carry an interest rate, but participate in the profits of the bank. According to some Islamic scholars banks are allowed to pay bonuses on accounts. So investment account as discussed above fully complies with Islamic laws. Investment accounts which mirrors the partnership loans on the asset side, by being fully involved in profit-loss- risk sharing arrangements of Islamic banks As a result funding consist of both funds for which Islamic banks are directly responsible and funds which they manage on behalf of investors.

In short, products which are offered by Islamic banks are the same as in conventional banks and are structured as conventional products and there is strong element of sharing risks in Islamic banks.

Practitioners and academics have observed that in reality most Islamic products are not based on profit-loss sharing but resemble very much debt instrument. Aggarwal and

Yousef (2000) and Khan (2010b) explain this as rational response by Islamic banks to the weak contractual framework prevalent in most countries with Islamic banks, which call for debt-like rather than equity- like instrument.

## Chapter-3: Literature Review, Data and Methodology for the Empirical Analysis.

### 3.1 Literature review:

Malaysia is growing in Islamic banking sector; where a study by Alwyni (2011) had shown that since the last five years, the growth in Islamic banking in Malaysia is rapid and significant, as being compared to the overall growth of the country's banking industry. This study has also revealed that the average growth rate of Islamic banking in Malaysia is 19 percent per annum, compared to the banking industry's 11 percent growth.

Samad (2004) examined the comparative performance of Bahrain's Islamic banks and the conventional commercial banks during the period of 1991-2001. It has been concluded that there is a significant difference in credit performance between these two banking system. However, there was no major difference in profitability and liquidity performances between Islamic banks and conventional banks.

Srairi (2010) evaluated the cost and profit efficiency by using stochastic frontier approach on 71 banks in Gulf countries from the period of 1999 to 2007. The efficiency comparison between Islamic and conventional banks results revealed that the efficiency of banks at Gulf countries is more convincing than other countries in the world. Kaleem and Isa (2003) evaluated the Islamic and conventional deposit returns by using alternative econometric procedure. They also studied the impact of one deposit return on the other
deposit return and concluded that Islamic banking industry contributed significant development to the Muslim countries.

Hanif (2011) examined the similarities and differences between Islamic and conventional banking and found Islamic banking practicing modern conventional banking with little restrictions imposed by the Islamic Sharia. The researcher further argued that it would be wrong to say Islamic banking is merely the copy of conventional banking. A big difference exists in the operation of Islamic financial institutions and conventional banking system.

Viverita (2011) evaluated that Islamic banks observed insignificant cost efficiency at 5\% than conventional banks. It was also found that Islamic banks generated more profitability and revenue than conventional banks.

Iqbal (2001) evaluated the performance of Islamic banks through trend analysis and ratios during the period of 1990 to 1998 and revealed that Islamic banks performed quite well compared to conventional banks over the specified period of time. Akhtar, et. al (2011) did a comparative analysis of Islamic and conventional banks by focusing on the importance of size of the firm, networking capital, return on equity, capital adequacy and return on assets with liquidity risk management. It found that size of the banks and networking capital to net assets having a positive but insignificant relationship with liquidity risk. Moreover capital adequacies in conventional banks and return on asset in Islamic banks have positive and significant relationship with liquidity risk.

Jaffar \& Manarvi (2011) evaluated the performance of Islamic and conventional banks through CAMEL test during the period of 2005 to 2009. A sample of 5 Islamic banks and 5 conventional banks were selected to measure and compare their performance. It found
that Islamic banks performed better and had higher liquidity than the conventional banks. The study also found that Islamic banks performed better in possessing adequate capital and had better liquidity position, while conventional banks pioneered in management quality and earning ability.

### 3.2 Data and Methodology:

The data used were from Malaysian_ibank_data with data on both listed and non-listed banks of Islamic and conventional banks, to construct and compare the indicators of financial performance such as liability, liquidity and profitability ratio. Out of 1,879 observations and 267 variables only those variables were chosen that are related to the study from the year 1995-2009 and only those banks were chosen that are Islamic and conventional banks. For study purposes all the other diverse banks such as commercial banks, merchant banks and investment banks were ignored because of different functions and accounting procedures. Moreover EPS and cash and portfolio investment ratios were ignored as they were not given in the data.

There are many ratios that have been used by researchers to measure bank profitability but the two most often used ratios are return on assets (ROA) and return on equity (ROE) and these were also used for calculating profitability in this paper.

To evaluate the financial performance of the bank, total loan to total asset ratio was used which shows how much of bank assets are tied to loans. For banks, the higher loan ratio means less liquidity. Demirguc-Kunt and Huizinga, (1999) found a positive relationship between loans and bank profitability. Furthermore, conventional banks rely on interest-
based loans while Islamic banks rely on profit and loss sharing interest-free lending. Therefore, this ratio is also used to compare the performance of interest-based loans and interest-free lending.

To estimate the Liabilities of a bank, deposits to total liabilities ratio has been used and is considered as a liability since they measure the impact of liabilities on profitability. On examining deposits in their study Bashir and Hassan (2004) found a negative relationship with profitability.

A paired t- test was conducted to get the significant differences among the calculated results. This test is a nonparametric test that compares two paired groups. It calculates the difference between each set of pairs and analyzes the differences. It is used when each observation in one group is paired with related observation in other group.

The null hypothesis for paired sample test is $\mathrm{H}_{0}$ : $\mathrm{d}=\mathrm{U}_{1}-\mathrm{U}_{2}=0$
Where $d=$ mean value of the difference .
This null hypothesis is tested against one of the following alternative hypothesis depending on question posed
$\mathrm{H} 0=\mathrm{d}$
$\mathrm{H} 0>\mathrm{d}$
$\mathrm{H} 0<\mathrm{d}$
It is more powerful than a two sample procedure but only can be used when there is matched sample. Formula for paired $t$ - test

$$
t=\frac{\Sigma d}{\sqrt{\frac{n\left(\Sigma d^{2}\right)-(\Sigma d)^{2}}{n-1}}}
$$

3.3 The variables: Based on ROA(return on asset), ROE( Return on equity), Loan to deposit ratio and Loan to asset ratio a paired $t$ - test has been conducted to compare between conventional and Islamic banks financial performance, liquidity and profitability ratios. The variables that were used along with their STATA results are concluded in Chapter-4.

## Chapter -4: The Empirical Results

## ROA:

This ratio is the indicator of how profitable a company is compared to its total assets. It also illustrates on how well management is employing the company's total assets to make a profit. The higher the return, the more efficiently management is utilizing it asset base. The ROA ratio is calculated by comparing net income to average total assets and is expressed as a percentage.

Formula: Return on asset= Net income / total assets.

Table - 4.1: Comparisons of profitability between Islamic and Conventional banks:
. ttest commercialbanks= islamicbanks, level(95)
Paired t test

| Variable | Obs | Mean | Std. Err | Std. Dev. | [95\% Conf | Interval] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| commer~s | 56 | . 9276786 | . 2416848 | 1.808604 | . 4433314 | 1.412026 |
| islami~s | 56 | -. 3133929 | . 5185171 | 3.880227 | -1.352524 | . 7257387 |
| diff | 56 | 1.241071 | . 577674 | 4.322916 | . 0833869 | 2.398756 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Ha: mean(diff) < 0 |  | Ha: mean(diff) $!=0$$\operatorname{Pr}(\|\mathrm{~T}\|>\mid \mathrm{t})=0.0361$ |  |  | Ha: mean(diff) $>0$$\operatorname{Pr}(\mathrm{~T}>\mathrm{t})=0.0181$ |  |
| $\operatorname{Pr}(\mathrm{T}<\mathrm{t})$ | 9819 |  |  |  |  |  |

ROA: From the STATA analysis the ROA for commercial banks is smaller than Islamic banks. As a result we reject the null hypothesis.

## ROE:

The amount of net income returned as a percentage of shareholders equity. Return on equity measures a corporation's profitability by revealing how much profit a company generates with the money shareholders have invested. ROE is expressed as a percentage.

## Formula: Return on Equity = Net Income/Shareholder's Equity

Table -4.2: Comparisons of profitability between Islamic and Conventional banks:

| $l$ |
| :--- |
| Paired t test |
| Variable |
| commer~s |
| islami~s |

ROE: In this result we cannot the reject the null hypothesis as there is no difference in ROE of commercial banks and Islamic banks.

## Loan to deposit ratio:

A commonly used formula for assessing a bank's liquidity by dividing the banks total loans by its total deposits. This is also known as the LTD ratio and is expressed as a percentage. If the ratio is too high, it means that banks might not have enough liquidity to cover any unforeseen fund requirements; if the ratio is too low, banks may not be earning as much as they could be.

Formula: LTD $($ Loan to deposit ratio $)=$ Total loan $/$ Total deposit

Table-4.3: Comparisons of liquidity between Islamic and Conventional banks:

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95\% Conf. | Interval] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| commer~s | 50 | . 4401143 | . 0437039 | . 309033 | . 3522881 | . 5279406 |
| islami~s | 50 | . 4762015 | . 0300678 | . 2126111 | . 4157781 | . 5366249 |
| diff | 50 | -. 0360872 | . 0456339 | . 3226803 | -. 1277919 | . 0556176 |
| mean $($ diff $)$ $=$ mean (commercialbanks $-i s l a m i c b a n k s)$ $t$ $=$ -0.7908 <br> Ho: mean $(d i f f)$ $=0$ 49   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Ha: mean(diff) < 0 |  | Ha: mean(diff) ! = 0 |  |  | на: mean(diff) $>0$ |  |
| $\operatorname{Pr}(\mathrm{T}<\mathrm{t})$ | 216 | $\operatorname{Pr}(\|\mathrm{T}\|>\|\mathrm{t}\|)=0.4329$ |  |  | $\operatorname{Pr}(\mathrm{T}>\mathrm{t})=0.7836$ |  |

LDT: In this result we cannot the reject the null hypothesis. There is no difference in
LDT of commercial banks and Islamic banks.

## LOAN TO ASSET RATIO:

A measurement indicates that the percentage of a corporation's assets which are financed with loans and financial obligations for one or more year. The ratio offers a general measure of the financial position of a company that states its ability to meet financial requirements for outstanding loans. A year-over-year decrease in this metric would suggest the company is progressively becoming less dependent on debt to grow its business. The calculation for the long term debt to total assets ratio is:

Formula: Long term debt to total asset ratio $=$ long term debt $/$ total asset

Table - 4.4: Comparisons of financial position between Islamic and Conventional banks:

| Variable | Obs | Mean | Std. Err. | Std. Dev. | [95\% Con | Interval] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| commer~s | 55 | . 3507399 | . 0318834 | . 2364534 | . 2868175 | . 4146622 |
| islami~s | 55 | . 4174838 | . 0248041 | . 1839524 | . 3677545 | . 4672131 |
| diff | 55 | -. 066744 | . 0382564 | . 283717 | -. 1434434 | . 0099555 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Ha: mean(diff) < 0 |  | Ha: mean(diff) $!=0$ |  |  | на: mean(diff) $>0$ |  |
| $\operatorname{Pr}(\mathrm{T}<\mathrm{t}$ ) | . 0434 |  |  |  | $\operatorname{Pr}(\mathrm{T}>\mathrm{t})=0.9566$ |  |

LAR: We reject the null hypothesis. There is difference between LAR of Commercial banks as LAR of commercial banks is smaller than Islamic banks.

## Chapter 5 Analyses of the Results:

The over all results reveal from the analysis of profitability of Islamic and conventional bank that, Islamic banks are more worthwhile/ profitable than conventional banks. The results also reveal that Islamic banks were increasing more than conventional banks except for the year 2007 where the mean probabilities of conventional banks were high. But after the event of financial crisis and recession, the profitability of Islamic banks outperforms the profitability of conventional banks.

The liquidity measures revealed that Islamic banks were more liquid than conventional banks which indicate that they are in a growing stage and obtaining benefits from unique product features.

Due to the existence of PLS (Profit loss sharing) principles, contractual agreements, and the absence of speculation, the financial performance are better than conventional banks. This has led to perhaps a surprising result compared to the mainstream financial services community, that Islamic banks are more profitable and liquid than conventional banks.

## Chapter-6 Recommendations:

Islamic banking is no longer regarded as a business entity to fulfil the religious obligations of the Muslim community. More significantly it is a business that is inextricably linked to the global financial system and winning over customers whilst retaining the old ones (Wilson, 1995). Instead of considering Islamic banks as a religious financial entity, investors need to reconsider their thought on this type of institution which is growing faster than the overall banking sector in several core markets. According to Ernst \& Young, 10 of the world's 25 rapid growth markets have large Muslim population which offers strong growth prospects for the Islamic banking sector.

The discussion and the analysis of in this paper might stimulate more research in this area since much more work remains for future research. Limitations of the study were availability of the data. Comprehensive financial data on Islamic banks are unavailable as Islamic banks are themselves relatively new. Hence the study has relied on financial data from other sources. The confidentiality of the data was another set back to this study as well.

There is a need for disaggregating data on the specific products and business lines which will help to generate a better understanding of the differences between Islamic and conventional banks for future studies.

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## Appendix A

| BANKS of Malaysia | LAR( Loan to asset to ration) | ROA (Return on asset) | ROE( Return to Equity) |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5519844 | 2.39 | 14.8 |
| Islamic Banks | 0 | -0.16 | -2.26 |
| Islamic Banks | 0.0724776 | 0.15 | 1.65 |
| Islamic Banks | 0.1369067 | 1.69 | 13.93 |
| Commercial Banks | 0.3950964 | 1.18 | 9.25 |
| Commercial Banks | 0.3678115 | 0.71 | 6.03 |
| Commercial Banks | 0.1640725 | 1.17 | 11.41 |
| Commercial Banks | 0.1254019 | 0.79 | 8 |
| Commercial Banks | 0.1275268 | 0.13 | 2.19 |
| Commercial Banks | 0.1085503 | 1.38 | 23.01 |
| Commercial Banks | 0.0985732 | 2.42 | 15.95 |
| Commercial Banks | 0.055361 | 1.25 | 8.95 |
| Commercial Banks | 0.1000401 | 1.8 | 13.12 |
| Commercial Banks | 0.0046965 | 1.15 | 8.62 |
| Commercial Banks | 0.0029803 | 1.74 | 14.45 |
| Commercial Banks | 0.0032239 | 1.07 | 10.09 |
| Commercial Banks | 0.0043492 | 1.42 | 12.83 |
| Commercial Banks | 0.0040761 | 0.56 | 5.17 |
| Commercial Banks | 0.0001318 | 1.2 | 10.88 |
| Commercial Banks | 0.0001703 | 0.86 | 19.4 |
| Commercial Banks | 0 | -1.1 | -34.56 |
| Commercial Banks | 0.0009312 | 0.57 | 17.8 |
| Commercial Banks | 0.7922736 | 0.03 | 0.46 |
| Commercial Banks | 0.6948474 | 1.22 | 18.87 |
| Commercial Banks | 0.7219774 | 1.4 | 24.3 |
| Commercial Banks | 0.6494353 | 1.2 | 22.8 |
| Commercial Banks | 0.6370029 | 1.21 | 25.76 |
| Commercial Banks | 0.6499069 | 1.21 | 26.57 |
| Commercial Banks | 0.5855948 | 1.32 | 29.88 |
| Commercial Banks | 0.5646275 | 1.73 | 36.99 |
| Commercial Banks | 0.4973663 | 0.69 | 12.94 |
| Commercial Banks | 0.4664594 | 2.32 | 21.71 |
| Commercial Banks | 0.4764954 | 1.59 | 18.53 |
| Commercial Banks | 0.5148306 | 1.81 | 13.29 |
| Commercial Banks | 0.6068736 | 0.64 | 3.53 |
| Commercial Banks | 0.454318 | 1.37 | 3.48 |
| Commercial Banks | 0.4432937 | 2.68 | 8.91 |
| Commercial Banks | 0.4067563 | 1.93 | 9.23 |
| Commercial Banks | 0.7339854 | -10.94 | -88.39 |
| Commercial Banks | 0.400985 | 0.81 | 14.13 |
| Commercial Banks | 0.3205847 | 0.38 | 7.4 |
| Commercial Banks | 0.273178 | 0.31 | 5.66 |
| Commercial Banks | 0.1996099 | 2.89 | 41.45 |
| Commercial Banks | 0.1891865 | 1.72 | 19.35 |
| Commercial Banks | 0.1751665 | 2.41 | 21.65 |
| Commercial Banks | 0.5434653 | 1.68 | 10.96 |
| Commercial Banks | 0.5948757 | -0.95 | -5.92 |


| Commercial Banks | 0.6790742 | 0.37 | 1.13 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5242312 | 1.05 | 18.07 |
| Commercial Banks | 0.5893151 | 1.43 | 22.56 |
| Commercial Banks | 0.2619974 | 0.65 | 10.28 |
| Commercial Banks | 0.5854807 | 1.79 | 25.6 |
| Commercial Banks | 0.573199 | 1.74 | 21.62 |
| Commercial Banks | 0.4199947 | 1.63 | 18.69 |
| Commercial Banks | 0.3537594 | 0.21 | 2.38 |
| Commercial Banks | 0.4157576 | 0.08 | 0.11 |
| Commercial Banks | 0.4414904 | 0.83 | 1.4 |
| Commercial Banks | 0.3861259 | 0.66 | 1.45 |
| Islamic Banks | 0.2926366 | 0.75 | 2.03 |
| Islamic Banks | 0.3353388 | 1.18 | 3.17 |
| Islamic Banks | 0.3858476 | 1.93 | 5.74 |
| Islamic Banks | 0.3823547 | 1.18 | 3.78 |
| Islamic Banks | 0.404294 | 1.29 | 4.35 |
| Islamic Banks | 0.4191749 | 0.96 | 14.84 |
| Islamic Banks | 0.4133359 | 1.12 | 17.08 |
| Islamic Banks | 0.2854537 | 1.16 | 15.18 |
| Islamic Banks | 0.3371734 | 0.31 | 3.66 |
| Islamic Banks | 0.3619615 | 0.93 | 10.71 |
| Islamic Banks | 0.3289622 | 1.11 | 12.26 |
| Islamic Banks | 0.2926503 | 0.87 | 10.36 |
| Islamic Banks | 0.3349482 | 0.93 | 11.25 |
| Islamic Banks | 0.3858573 | 1.68 | 18.98 |
| Islamic Banks | 0.3823547 | 1.54 | 17.9 |
| Islamic Banks | 0.3144585 | 2.39 | 27.93 |
| Islamic Banks | 0.2767034 | 1.34 | 16.31 |
| Islamic Banks | 0.4036345 | 1.36 | 17.53 |
| Islamic Banks | 0.4414325 | 1.06 | 13.7 |
| Islamic Banks | 0.011964 | -0.15 | -1.67 |
| Islamic Banks | 0.3374881 | 0.75 | 15.98 |
| Islamic Banks | 0.2253249 | 1.37 | 23.11 |
| Islamic Banks | 0.320065 | 1.39 | 20.55 |
| Islamic Banks | 0.0082642 | 1.8 | 26.76 |
| Islamic Banks | 0.7346646 | 1.01 | 15.04 |
| Islamic Banks | 0.5959852 | 0.24 | 3.4 |
| Islamic Banks | 0.7964182 | 0.86 | 11.16 |
| Islamic Banks | 0.7427649 | 0.49 | 8.15 |
| Islamic Banks | 0.6627697 | 0.64 | 10.35 |
| Commercial Banks |  | 0.93 | 12.16 |
| Commercial Banks | 0.3194579 | 0.94 | 12.11 |
| Commercial Banks | 0.3011244 | 0.91 | 11.39 |
| Commercial Banks | 0.2958338 | -0.86 | -10.4 |
| Commercial Banks | 0.326087 | 0.48 | 6 |
| Commercial Banks | 0.3095172 | 1.35 | 16.06 |
| Commercial Banks | 0.3420503 | 0.71 | 8.1 |
| Commercial Banks | 0.5812441 | 0.65 | 15.12 |
| Islamic Banks | 0.4460301 | 1.19 | 24.66 |
| Islamic Banks | 0.5125366 | 0.69 | 12.45 |
| Islamic Banks | 0.5371947 | 1.77 | 23.24 |
| Islamic Banks | 0.5711771 | 1.28 | 16.6 |


| Commercial Banks | 0.5423056 | 1.38 | 18.26 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5436054 | 1.61 | 19.66 |
| Commercial Banks | 0.5463815 | 1.02 | 11.37 |
| Commercial Banks | 0.6473398 | 0.21 | 2.16 |
| Commercial Banks | 0.6563316 | 1.85 | 17.22 |
| Commercial Banks | 0.6301646 | 2.08 | 17.37 |
| Commercial Banks | 0.6689895 | 1.87 | 13.83 |
| Commercial Banks | 0.6377347 | 1.6 | 11.51 |
| Commercial Banks | 0.6279491 | 1.68 | 12.09 |
| Commercial Banks | 0.604095 | 1.71 | 14.77 |
| Commercial Banks | 0.6582597 | 1.52 | 17.17 |
| Commercial Banks | 0.6485313 | 1.38 | 19.24 |
| Commercial Banks | 0.5212507 | 1.37 | 22.42 |
| Commercial Banks | 0.6335439 | 1.42 | 25.96 |
| Commercial Banks | 0.6061506 | 1.23 | 23.26 |
| Commercial Banks | 0.4558492 | 0.86 | 11.74 |
| Commercial Banks | 0.5170654 | 1.18 | 15.79 |
| Commercial Banks | 0.6788545 | 1.2 | 17.08 |
| Commercial Banks | 0.6700257 | 0.32 | 4.4 |
| Commercial Banks | 0.7188641 | 0.72 | 8.73 |
| Commercial Banks | 0.7598982 | 0.51 | 5.71 |
| Commercial Banks | 0.686083 | 0.46 | 4.89 |
| Commercial Banks | 0.7359421 | 0.16 | 1.59 |
| Commercial Banks | 0.6849318 | 0.26 | 2.87 |
| Commercial Banks | 0.6580888 | 0.12 | 1.51 |
| Commercial Banks | 0.6257561 | 0.37 | 5 |
| Commercial Banks | 0.6208759 | 0.49 | 7.01 |
| Commercial Banks | 0.5746006 | 0.76 | 11.44 |
| Commercial Banks | 0.5098798 | 1.11 | 15.85 |
| Commercial Banks | 0.5649969 | 0.95 | 15.46 |
| Commercial Banks | 0.5877373 | 0.87 | 13.27 |
| Commercial Banks | 0.4359114 | 1.18 | 16.62 |
| Commercial Banks | 0.5105062 | 1.21 | 18.06 |
| Commercial Banks | 0.5389556 | 0.1 | 1.49 |
| Commercial Banks | 0.5833628 | 0.6 | 7.9 |
| Commercial Banks | 0.3753018 | 0.61 | 7.23 |
| Commercial Banks | 0.4428969 | 0.52 | 5.85 |
| Commercial Banks | 0.4895388 | 0.19 | 2.03 |
| Commercial Banks | 0.4885381 | 0.43 | 5 |
| Commercial Banks | 0.4703016 | 0.41 | 5.4 |
| Commercial Banks | 0.4999931 | 0.47 | 6.76 |
| Commercial Banks | 0.5393531 | 0.56 | 8.56 |
| Commercial Banks | 0.5770387 | 0.8 | 12.52 |
| Commercial Banks | 0.607365 | 1.1 | 16.22 |
| Commercial Banks | 0.7051963 | 0.85 | 16.41 |
| Commercial Banks | 0.6034771 | 0.94 | 16.17 |
| Commercial Banks | 0.5982055 | 1.07 | 16.09 |
| Commercial Banks | 0.5601731 | 0.89 | 10.69 |
| Commercial Banks | 0.5703413 | 0.23 | 2.47 |
| Commercial Banks | 0.6035095 | 0.32 | 4.92 |
| Commercial Banks | 0.6232761 | 0.58 | 10.08 |
| Commercial Banks | 0.6243276 | 0.13 | 2.13 |


| Commercial Banks | 0.6737846 | 0.42 | 6.47 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.6241732 | 0.54 | 7.91 |
| Commercial Banks | 0.6207527 | 0.2 | 3.03 |
| Commercial Banks | 0.6342079 | 0.72 | 10.36 |
| Commercial Banks | 0.6382388 | 0.89 | 11.41 |
| Commercial Banks | 0.6797569 | 0.88 | 11.12 |
| Commercial Banks | 0.6778546 | 1.17 | 14.75 |
| Commercial Banks | 0.6271476 | 0.91 | 16.65 |
| Commercial Banks | 0.5273044 | 1.16 | 19.79 |
| Commercial Banks | 0.5001841 | 1.27 | 20.27 |
| Commercial Banks | 0.5454323 | 1.34 | 18.96 |
| Commercial Banks | 0.5580589 | 0.1 | 1.3 |
| Commercial Banks | 0.6244188 | 0.82 | 10.51 |
| Commercial Banks | 0.6261197 | 1.12 | 13.68 |
| Commercial Banks | 0.6508154 | 0.6 | 7.62 |
| Commercial Banks | 0.6845696 | 1.16 | 14.52 |
| Commercial Banks | 0.6492174 | 1.32 | 15.29 |
| Commercial Banks | 0.6889372 | 1.45 | 17.07 |
| Commercial Banks | 0.6572099 | 1.37 | 15.94 |
| Commercial Banks | 0.6582651 | 1.36 | 16.51 |
| Commercial Banks | 0.6987891 | 1.35 | 17.42 |
| Commercial Banks | 0.6903977 | 1.14 | 15.03 |
| Commercial Banks | 0.6432455 | 0.26 | 3.27 |
| Commercial Banks | 0.5591719 | 0.23 | 4.76 |
| Commercial Banks | 0.562019 | 1.22 | 26 |
| Commercial Banks | 0.5544487 | 1.16 | 21.97 |
| Commercial Banks | 0.5683836 | 1.2 | 19.91 |
| Commercial Banks | 0.6333413 | 0.91 | 15.3 |
| Commercial Banks | 0.6835313 | -2.58 | -55.98 |
| Commercial Banks | 0.6254163 | 0.23 | 1.51 |
| Commercial Banks | 0.6556809 | 0.8 | 7.18 |
| Commercial Banks | 0.6352217 | -0.85 | -12.01 |
| Commercial Banks | 0.6912315 | -6.2 | -198.68 |
| Commercial Banks | 0.5023482 | 0.2 | 166.46 |
| Commercial Banks | 0.569701 | 1.18 | 16.04 |
| Commercial Banks | 0.6390468 | 1.34 | 13.8 |
| Commercial Banks | 0.6087686 | 1.48 | 13.78 |
| Commercial Banks | 0.5982192 | 1.15 | 9.35 |
| Commercial Banks | 0.5887273 | 0.93 | 6.41 |
| Commercial Banks | 0.6261287 | 1.34 | 7.88 |
| Commercial Banks | 0.5710245 | 0.3 | 2.14 |
| Commercial Banks | 0.5216675 | 1.02 | 8.78 |
| Commercial Banks | 0.5774274 | 1.47 | 11.93 |
| Commercial Banks | 0.5378999 | 1.39 | 11.77 |
| Commercial Banks | 0.5984339 | 1.27 | 10.22 |
| Commercial Banks | 0.5993769 | 2.4 | 18.08 |
| Commercial Banks | 0.5862265 | 1.12 | 18.1 |
| Commercial Banks | 0.6798467 | 1.13 | 15.04 |
| Commercial Banks | 0.6494924 | 0.97 | 11.62 |
| Commercial Banks | 0.6230912 | 0.34 | 4.12 |
| Commercial Banks | 0.6575996 | 1.14 | 13.04 |
| Commercial Banks | 0.6335831 | 0.57 | 10.6 |


| Commercial Banks | 0.6367509 | 0.7 | 11.17 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.60761 | 0.92 | 13.89 |
| Commercial Banks | 0.6232242 | -0.86 | -14.76 |
| Commercial Banks | 0.5861036 | -5.31 | -183.89 |
| Commercial Banks | 0.5488225 | -4.89 | 229.35 |
| Commercial Banks | 0.6117197 | 1.33 | 19.49 |
| Commercial Banks | 0.5978752 | 1.36 | 15.33 |
| Commercial Banks | 0.5141335 | 1.78 | 17.67 |
| Commercial Banks | 0.4259912 | 0.98 | 8.49 |
| Commercial Banks | 0.525629 | 0.39 | 2.93 |
| Commercial Banks | 0.5594951 | 0.71 | 5.83 |
| Commercial Banks | 0.5309897 | 0.71 | 7.19 |
| Commercial Banks | 0.5925069 | 0.87 | 9.52 |
| Commercial Banks | 0.6470212 | 1.17 | 12.32 |
| Commercial Banks | 0.6559832 | 1.22 | 13.4 |
| Commercial Banks | 0.655368 | 1.16 | 12.01 |
| Commercial Banks | 0.7276406 | 0.99 | 9.68 |
| Commercial Banks | 0.6574463 | 1.6 | 16.64 |
| Commercial Banks | 0.5230058 | 1.58 | 17.14 |
| Commercial Banks | 0.586606 | 1.57 | 15.26 |
| Commercial Banks | 0.5908855 | 0.6 | 6 |
| Commercial Banks | 0.5662434 | -1.13 | -12.94 |
| Commercial Banks | 0.6569978 | 2 | 23.68 |
| Commercial Banks | 0.6195536 | 1.88 | 23.04 |
| Commercial Banks | 0.6810357 | 1.94 | 21.38 |
| Commercial Banks | 0.6947422 | 1.18 | 12.92 |
| Commercial Banks | 0.7099835 | 0.57 | 6.28 |
| Commercial Banks | 0.6565418 | 0.64 | 6.67 |
| Commercial Banks | 0.6397085 | -0.69 | -7.56 |
| Commercial Banks | 0.6488972 | -4.16 | -62.85 |
| Commercial Banks | 0.5620718 | 0.38 | 6.67 |
| Commercial Banks | 0.6150278 | 0.38 | 5.85 |
| Commercial Banks | 0.6296075 | 0.83 | 10.96 |
| Commercial Banks | 0.6527642 | 0.78 | 9.18 |
| Commercial Banks | 0.6555318 | 0.73 | 9.13 |
| Commercial Banks | 0.5846385 | 0.76 | 9.72 |
| Commercial Banks | 0.65966 | 1.02 | 12.69 |
| Commercial Banks | 0.6342033 | 0.93 | 11.2 |
| Commercial Banks | 0.6563511 | 1.9 | 18.88 |
| Commercial Banks | 0.5951591 | 1.6 | 15.78 |
| Commercial Banks | 0.6140445 | 1.76 | 18.3 |
| Commercial Banks | 0.5444781 | 5.2 | 44.93 |
| Commercial Banks | 0.595742 | 1.11 | 7.85 |
| Commercial Banks | 0.6155999 | 1.53 | 10.9 |
| Commercial Banks | 0.5907969 | 1.76 | 26.26 |
| Commercial Banks | 0.6685987 | 1.15 | 18.52 |
| Commercial Banks | 0.6510489 | 1.11 | 18.77 |
| Commercial Banks | 0.6968654 | 0.19 | 2.85 |
| Commercial Banks | 0.7094129 | 0.5 | 6.83 |
| Commercial Banks | 0.7345076 | 1.5 | 20.97 |
| Commercial Banks | 0.6899918 | 1.04 | 14.52 |
| Commercial Banks | 0.6914281 | 1.22 | 15.92 |


| Commercial Banks | 0.694271 | 1.34 | 15.77 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.694482 | 0.83 | 9.17 |
| Commercial Banks | 0.7017254 | 0.97 | 11.78 |
| Commercial Banks | 0.7310306 | 0.93 | 12.52 |
| Commercial Banks | 0.7100656 | 0.94 | 13.7 |
| Commercial Banks | 0.7674437 | 1 | 15.15 |
| Commercial Banks | 0.5908195 | 1.15 | 16.58 |
| Commercial Banks | 0.6780673 | 0.94 | 18.94 |
| Commercial Banks | 0.6860418 | 1.13 | 19.6 |
| Commercial Banks | 0.6525571 | 1.2 | 18.02 |
| Commercial Banks | 0.6606398 | 0.83 | 12.95 |
| Commercial Banks | 0.6418803 | -2.7 | -54.68 |
| Commercial Banks | 0.5941261 | 0.97 | 11.2 |
| Commercial Banks | 0.6761131 | 1 | 12.06 |
| Commercial Banks | 0.5996355 | 1.19 | 14.72 |
| Commercial Banks | 0.5080219 | 0.84 | 10.71 |
| Commercial Banks | 0.5932137 | 0.92 | 11 |
| Commercial Banks | 0.6573322 | 1.69 | 17 |
| Commercial Banks | 0.5772802 | 1.44 | 13.17 |
| Commercial Banks | 0.5280168 | 1.09 | 8.94 |
| Commercial Banks | 0.5911989 | 1.4 | 11.31 |
| Commercial Banks | 0.6177012 | 1.97 | 16.47 |
| Commercial Banks | 0.5890613 | 3.05 | 31.53 |
| Commercial Banks | 0.6358546 | 1.31 | 17.63 |
| Commercial Banks | 0.6269382 | 1.48 | 23.26 |
| Commercial Banks | 0.6449358 | 1.44 | 24.28 |
| Commercial Banks | 0.6599984 | 1.4 | 24.25 |
| Commercial Banks | 0.6535636 | 1.27 | 22 |
| Commercial Banks | 0.6075495 | 0.77 | 8.53 |
| Commercial Banks | 0.6488166 | 1.04 | 11.42 |
| Commercial Banks | 0.6616075 | 0.22 | 3.23 |
| Commercial Banks | 0.6668111 | 0.45 | 6.54 |
| Commercial Banks | 0.5987025 | 1.31 | 13.8 |
| Commercial Banks | 0.5740576 | 0.7 | 8.29 |
| Commercial Banks | 0.5671724 | 0.83 | 8.88 |
| Commercial Banks | 0.543514 | 1.13 | 12.91 |
| Commercial Banks | 0.5172578 | 0.55 | 7.19 |
| Commercial Banks | 0.4682004 | 0.16 | 2.08 |
| Commercial Banks | 0.4439614 | 0.99 | 11.81 |
| Commercial Banks | 0.4722879 | 0.25 | 5.7 |
| Commercial Banks | 0.4431982 | 0.94 | 20.43 |
| Commercial Banks | 0.4458232 | 0.29 | 5.77 |
| Commercial Banks | 0.4382044 | 1.43 | 18.41 |
| Commercial Banks | 0.397799 | 1.05 | 15.79 |
| Commercial Banks | 0.5271176 | 0.89 | 13.38 |
| Commercial Banks | 0.5741707 | 0.99 | 15.95 |
| Commercial Banks | 0.4978795 | 0.63 | 10.28 |
| Commercial Banks | 0.5659888 | 0.35 | 5.26 |
| Commercial Banks | 0.2986034 | 0.83 | 11.46 |
| Commercial Banks | 0.3712522 | 0.79 | 10.04 |
| Commercial Banks | 0.4212572 | 0.86 | 9.71 |
| Commercial Banks | 0.3774198 | 0.9 | 10.03 |


| Commercial Banks | 0.3807265 | 0.3 | 2.86 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.4197896 | -0.29 | -2.76 |
| Commercial Banks | 0.4498916 | 1.51 | 14.9 |
| Commercial Banks | 0.4845118 | 1.66 | 16.21 |
| Commercial Banks | 0.4847681 | 0.94 | 10.42 |
| Commercial Banks | 0.4704109 | 0.95 | 11.62 |
| Commercial Banks | 0.6055827 | 1.06 | 12.66 |
| Commercial Banks | 0.6010379 | 0.88 | 9.85 |
| Commercial Banks | 0.5652275 | 0.82 | 9.26 |
| Commercial Banks | 0.5667009 | 0.59 | 7.01 |
| Commercial Banks | 0.5589377 | 0.56 | 6.79 |
| Commercial Banks | 0.6114219 | 0.34 | 4.16 |
| Commercial Banks | 0.5344784 | 0.08 | 0.11 |
| Commercial Banks | 0.6017607 | 0.44 | 2.03 |
| Commercial Banks | 0.4174649 | 0.58 | 4.72 |
| Commercial Banks | 0.7007275 | 0.71 | 4.46 |
| Commercial Banks | 0.5604087 | 0.71 | 12.43 |
| Commercial Banks | 0.5443388 | 1.37 | 16.92 |
| Commercial Banks | 0.6199286 | 1.47 | 10.69 |
| Commercial Banks | 0.6258955 | 4.17 | 39.9 |
| Commercial Banks | 0.6084008 | 1.92 | 17.99 |
| Commercial Banks | 0.6005869 | 1.12 | 18.71 |
| Commercial Banks | 0.5995892 | 1.62 | 24.66 |
| Commercial Banks | 0.4552087 | 0.25 | 3.69 |
| Commercial Banks | 0.5214524 | 0.52 | 8.08 |
| Commercial Banks | 0.5616908 | -0.75 | -13.33 |
| Commercial Banks | 0.6459269 | 0.93 | 14.76 |
| Commercial Banks | 0.706662 | 0.87 | 13.77 |
| Commercial Banks | 0.7074008 | 1.19 | 19.86 |
| Commercial Banks | 0.6468259 | 1.61 | 24.57 |
| Commercial Banks | 0.6640048 | 0.69 | 9.47 |
| Commercial Banks | 0.6729448 | 0.5 | 7.79 |
| Commercial Banks | 0.6264824 | -0.98 | -17.74 |
| Commercial Banks | 0.5777155 | 0.7 | 12.14 |
| Commercial Banks | 0.6855572 | 0.8 | 13.93 |
| Commercial Banks | 0.6948604 | 0.15 | 1.33 |
| Commercial Banks | 0.7211808 | 0.25 | 1.97 |
| Commercial Banks | 0.6662917 | 0.64 | 5.09 |
| Commercial Banks | 0.6875537 | 0.09 | 0.6 |
| Commercial Banks | 0.6552813 | -0.6 | -4.28 |
| Commercial Banks | 0.7033616 | 0.72 | 5.31 |
| Commercial Banks | 0.6644576 | 0.71 | 4.9 |
| Commercial Banks | 0.6677436 | 0.38 | 3.5 |
| Commercial Banks | 0.7022731 | 0.54 | 6.26 |
| Commercial Banks | 0.7242199 | 1.48 | 16.45 |
| Commercial Banks | 0.6900445 | 4.02 | 43.88 |
| Commercial Banks | 0.6821741 | 0.83 | 9.6 |
| Commercial Banks | 0.6803294 | 0.59 | 6.69 |
| Commercial Banks |  | 0.5 | 5.36 |
| Commercial Banks | 0.2703008 | 0.44 | 4.86 |
| Commercial Banks | 0.509201 | 1.97 | 23.3 |
| Commercial Banks | 0.6453424 | 1.87 | 22.9 |


| Commercial Banks | 0.1507069 | 1.94 | 21.39 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.2427814 | 1.2 | 13.07 |
| Commercial Banks | 0.1514959 | 0.55 | 6.03 |
| Islamic Banks | 0.6131308 | 0.62 | 6.45 |
| Islamic Banks | 0.5900905 | -0.67 | -7.36 |
| Islamic Banks | 0.5223992 | -4.16 | -63.02 |
| Islamic Banks | 0.4183877 | 0.35 | 6.03 |
| Commercial Banks | 0.4831683 | 0.38 | 5.84 |
| Commercial Banks | 0.4323381 | 0.85 | 11.34 |
| Commercial Banks | 0.8786213 | 0.76 | 8.98 |
| Commercial Banks | 0.7760776 | 0.62 | 7.38 |
| Commercial Banks | 0.7664055 | 0.69 | 7.81 |
| Commercial Banks | 0.7206506 | 1.11 | 12.03 |
| Commercial Banks | 0.7005163 | 1.02 | 10.95 |
| Commercial Banks | 0.6773103 | 0.91 | 17.47 |
| Commercial Banks | 0.672736 | 1.05 | 17.98 |
| Commercial Banks | 0.8792982 | 1.21 | 18.02 |
| Commercial Banks | 0.8862493 | 0.85 | 9.29 |
| Commercial Banks | 0.8973321 | 0.29 | 2.74 |
| Commercial Banks | 0.821731 | 0.32 | 4.6 |
| Commercial Banks | 0.6922765 | 0.72 | 11.87 |
| Commercial Banks | 0.7215315 | 0.28 | 4.36 |
| Commercial Banks | 0.6626881 | 0.58 | 8.62 |
| Commercial Banks | 0.3959835 | 0.65 | 9.23 |
| Commercial Banks | 0.6000354 | 0.37 | 5.21 |
| Commercial Banks | 0.627028 | 0.81 | 11.02 |
| Commercial Banks | 0.6407575 | 1.03 | 12.85 |
| Commercial Banks | 0.5839399 | 1.2 | 15.01 |
| Commercial Banks | 0.6281812 | 0.67 | 8.52 |
| Commercial Banks | 0.5801145 | 1.02 | 12.46 |
| Commercial Banks | 0.6072552 | 0.21 | 3.16 |
| Commercial Banks | 0.5674671 | 2.34 | 33.72 |
| Commercial Banks | 0.5815683 | 2.45 | 30.04 |
| Commercial Banks | 0.700284 | 1.3 | 14.34 |
| Commercial Banks | 0.7212158 | 1.28 | 12.32 |
| Commercial Banks | 0.6695644 | 2.32 | 18.13 |
| Commercial Banks | 0.660219 | 1.93 | 16.1 |
| Commercial Banks | 0.6660067 | 1.2 | 11.05 |
| Commercial Banks | 0.5902807 | 1.98 | 21.48 |
| Commercial Banks | 0.6777592 | 1.54 | 21.36 |
| Commercial Banks | 0.6855481 | 1.29 | 19.24 |
| Commercial Banks | 0.6522501 | 1.16 | 16.93 |
| Commercial Banks | 0.6603964 | 1.29 | 18.08 |
| Commercial Banks | 0.641906 | 1.42 | 19.02 |
| Commercial Banks | 0.5942249 | 1 | 13.65 |
| Commercial Banks | 0.6735907 | 0.75 | 15.96 |
| Commercial Banks | 0.5977849 | 1.37 | 23.09 |
| Commercial Banks | 0.5061454 | 1.39 | 20.51 |
| Commercial Banks | 0.5923954 | 1.81 | 26.79 |
| Commercial Banks | 0.6570975 | 0.99 | 14.77 |
| Commercial Banks | 0.6014553 | 0.34 | 4.25 |
| Commercial Banks | 0.5756114 | 0.88 | 10.19 |


| Commercial Banks | 0.6149943 | 0.74 | 10.54 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.6299587 | 0.82 | 10.61 |
| Commercial Banks | 0.6981707 | 1.01 | 10.92 |
| Commercial Banks | 0.6350019 | 0.97 | 10.65 |
| Commercial Banks | 0.6767735 | 0.89 | 10.26 |
| Commercial Banks | 0.6646447 | -0.8 | -9.11 |
| Commercial Banks | 0.6835689 | 0.49 | 5.74 |
| Commercial Banks | 0.492983 | 1.52 | 17.03 |
| Commercial Banks | 0.5642346 | 0.87 | 9.23 |
| Commercial Banks | 0.6526718 | 0.98 | 17.36 |
| Commercial Banks | 0.6301218 | 1.12 | 16.09 |
| Commercial Banks | 0.6397364 | 0.91 | 11.66 |
| Commercial Banks | 0.6363186 | 0.32 | 4.12 |
| Commercial Banks | 0.6253675 | 0.96 | 11.9 |
| Commercial Banks | 0.5781884 | 0.63 | 7.53 |
| Commercial Banks | 0.520074 | 0.74 | 8.01 |
| Commercial Banks | 0.5690546 | 1.18 | 13.45 |
| Commercial Banks | 0.5775943 | 0.63 | 8.28 |
| Commercial Banks | 0.6900712 | 0.14 | 1.86 |
| Commercial Banks | 0.6716877 | 0.72 | 8.67 |
| Commercial Banks | 0.6147326 | 1.41 | 16.11 |
| Commercial Banks | 0.5957792 | 1.2 | 13.81 |
| Commercial Banks | 0.6308298 | 1.33 | 16.42 |
| Commercial Banks | 0.6513959 | 0.99 | 12.15 |
| Commercial Banks | 0.5868359 | 0.58 | 6.42 |
| Commercial Banks | 0.5811778 | 1.05 | 12.61 |
| Commercial Banks | 0.6566154 | 0.22 | 1.46 |
| Commercial Banks | 0.5824389 | 0.79 | 6.89 |
| Commercial Banks | 0.5608349 | -0.84 | -11.53 |
| Commercial Banks | 0.5538989 | -5.09 | -130.98 |
| Commercial Banks | 0.6316088 | 0.24 | 16.81 |
| Commercial Banks | 0.694995 | 0.68 | 7.78 |
| Commercial Banks | 0.6665893 | 1.46 | 17.88 |
| Commercial Banks | 0.456416 | 1.57 | 21.23 |
| Commercial Banks | 0.5175815 | 1.23 | 16.99 |
| Commercial Banks | 0.6791329 | 0.47 | 5.78 |
| Commercial Banks | 0.6703395 | 1.86 | 20.66 |
| Commercial Banks | 0.7190984 | 1.4 | 15.91 |
| Commercial Banks | 0.7731586 | 1.06 | 12.44 |
| Commercial Banks | 0.686116 | 0.88 | 10.03 |
| Commercial Banks | 0.7346213 | 0.88 | 11.11 |
| Commercial Banks | 0.6682585 | 1.03 | 16.3 |
| Commercial Banks | 0.6490828 | 1.42 | 22.38 |
| Commercial Banks | 0.6203644 | 1.22 | 19.12 |
| Commercial Banks | 0.647285 | 1.25 | 21.06 |
| Commercial Banks | 0.5954462 | 1.4 | 21.68 |
| Commercial Banks | 0.5349475 | 0.64 | 6.02 |
| Commercial Banks | 0.5148229 | 1.91 | 19.47 |
| Commercial Banks | 0.5714231 | 2 | 19.7 |
| Commercial Banks | 0.5685282 | 1.38 | 13.69 |
| Commercial Banks | 0.6233793 | 0.54 | 5.69 |
| Commercial Banks | 0.6361901 | 1.73 | 15.81 |


| Commercial Banks | 0.6593346 | 2.55 | 19.52 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.6637764 | 0.49 | 10.58 |
| Islamic Banks | 0.5910498 | 1.81 | 29.79 |
| Islamic Banks | 0.4427843 | 1.89 | 24.21 |
| Islamic Banks | 0.384664 | 2.37 | 29.62 |
| Islamic Banks | 0.3514888 | 1.03 | 13.93 |
| Commercial Banks | 0.5497651 | 1.99 | 28.96 |
| Commercial Banks | 0.6240155 | 1.64 | 25.51 |
| Commercial Banks | 0.6296701 | 0.03 | 0.49 |
| Commercial Banks | 0.6125172 | 1.22 | 18.87 |
| Commercial Banks | 0.605258 | 1.4 | 24.3 |
| Commercial Banks | 0.6093768 | 1.2 | 22.81 |
| Commercial Banks | 0.6875152 | 1.21 | 25.76 |
| Commercial Banks | 0.6878089 | 1.21 | 26.57 |
| Commercial Banks | 0.6230894 | 1.32 | 29.88 |
| Commercial Banks | 0.6668974 | 1.67 | 37.39 |
| Commercial Banks | 0.7065955 | 0.68 | 13.38 |
| Commercial Banks | 0.6178176 | 1.82 | 16.09 |
| Commercial Banks | 0.643592 | 1.15 | 12.06 |
| Commercial Banks | 0.6359836 | 1.11 | 13.39 |
| Commercial Banks | 0.6392147 | 0.46 | 4.78 |
| Commercial Banks | 0.7230055 | 0.82 | 7.72 |
| Commercial Banks | 0.6594722 | 1.32 | 13.47 |
| Commercial Banks | 0.681451 | 2.37 | 24.41 |
| Commercial Banks | 0.6726286 | 1.06 | 10.3 |
| Commercial Banks | 0.6812395 | 2.43 | 21.81 |
| Commercial Banks | 0.6619728 | 1.13 | 10.3 |
| Commercial Banks | 0.7339495 | 2.33 | 26.68 |
| Commercial Banks | 0.6874191 | 0.89 | 11.51 |
| Commercial Banks | 0.651019 | 0.9 | 12.39 |
| Commercial Banks | 0.6705083 | 1.02 | 14.79 |
| Commercial Banks | 0.6724079 | 0.94 | 12.88 |
| Commercial Banks | 0.6539019 | 0.68 | 7.64 |
| Commercial Banks | 0.6913447 | 1.5 | 18.15 |
| Commercial Banks | 0.6794875 | 1.58 | 20.97 |
| Commercial Banks | 0.6286744 | 1.22 | 16.79 |
| Commercial Banks | 0.6307982 | 0.29 | 3.61 |
| Commercial Banks | 0.6287444 | 1.21 | 13.47 |
| Commercial Banks | 0.7373573 | 1.41 | 15.84 |
| Commercial Banks | 0.7574582 | 1.07 | 12.42 |
| Commercial Banks | 0.7367514 | 0.88 | 10 |
| Commercial Banks | 0.6829436 | 0.86 | 10.79 |
| Commercial Banks | 0.8361478 | 1.02 | 16.05 |
| Commercial Banks | 0.8499281 | 1.42 | 22.24 |
| Commercial Banks | 0.8918356 | 1.22 | 19.02 |
| Islamic Banks |  | 1.25 | 20.95 |
| Islamic Banks | 0.7220041 | 1.33 | 21.33 |
| Commercial Banks | 0.5258486 | 0.69 | 6.87 |
| Commercial Banks | 0.634941 | 1.81 | 19.61 |
| Commercial Banks | 0.6736533 | 1.9 | 19.93 |
| Commercial Banks | 0.6414194 | 1.27 | 13.25 |
| Commercial Banks | 0.6964313 | 0.58 | 6.05 |


| Commercial Banks | 0.6667168 | 1.75 | 15.37 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.6282535 | 2.37 | 17.65 |
| Commercial Banks | 0.6494353 | -0.44 | -2 |
| Commercial Banks | 0.6370029 | 0.59 | 3.52 |
| Commercial Banks | 0.6499097 | 0.26 | 2.42 |
| Commercial Banks | 0.5855968 | -0.78 | -10.19 |
| Commercial Banks | 0.5646292 | -0.18 | -2.92 |
| Commercial Banks | 0.4973676 | 2.17 | 29.84 |
| Commercial Banks | 0.4664594 | 0.4 | 5.63 |
| Commercial Banks | 0.4671222 | 1.91 | 27.45 |
| Commercial Banks | 0.5393118 | 2.24 | 29.64 |
| Commercial Banks | 0.5418412 | 1.48 | 17.19 |
| Commercial Banks | 0.6227409 | 1.56 | 19.11 |
| Commercial Banks | 0.6338324 | 2.05 | 25.6 |
| Commercial Banks | 0.6737821 | 1.05 | 14.71 |
| Commercial Banks | 0.6082731 | -1.14 | -19.29 |
| Commercial Banks | 0.5442824 | -2.08 | -39.78 |
| Commercial Banks | 0.4817724 | 1.79 | 32.62 |
| Commercial Banks | 0.4728181 | 1.66 | 26.44 |
| Commercial Banks | 0.4702237 | 1.32 | 20.01 |
| Commercial Banks | 0.422688 | 1.43 | 23.18 |
| Commercial Banks | 0.4428257 | 1.49 | 24.79 |
| Commercial Banks | 0.4474338 | 1.5 | 24.23 |
| Commercial Banks | 0.4226936 | 1.77 | 28.46 |
| Commercial Banks | 0.4329888 | 1.65 | 27.11 |
| Commercial Banks | 0.4373958 | 1.79 | 27.94 |
| Commercial Banks | 0.6830712 | 1.17 | 17.18 |
| Commercial Banks | 0.6713332 | 1.42 | 17.39 |
| Commercial Banks | 0.6869522 | 1.52 | 19.33 |
| Commercial Banks | 0.6533791 | 1.96 | 25.06 |
| Commercial Banks | 0.7389748 | 1 | 14.15 |
| Commercial Banks | 0.6874889 | -1.39 | -23.48 |
| Commercial Banks | 0.6509675 | -2.08 | -39.78 |
| Commercial Banks | 0.6704625 | 1.79 | 32.62 |
| Commercial Banks | 0.6723715 | 1.66 | 26.44 |
| Commercial Banks | 0.653877 | 1.32 | 20.01 |
| Commercial Banks | 0.6915191 | 1.43 | 23.18 |
| Commercial Banks | 0.6794694 | 1.49 | 24.79 |
| Commercial Banks | 0.628711 | 1.5 | 24.23 |
| Commercial Banks | 0.6308284 | 1.77 | 28.46 |
| Commercial Banks | 0.6303024 | 1.65 | 27.11 |
| Commercial Banks | 0.748883 | 1.78 | 28.56 |
| Commercial Banks | 0.7668482 | 1.21 | 18.55 |
| Commercial Banks | 0.7549124 | 0.94 | 16.08 |
| Commercial Banks | 0.7209124 | 0.8 | 13.87 |
| Commercial Banks | 0.8423138 | 0.89 | 15.37 |
| Commercial Banks | 0.8567947 | 0.65 | 6.35 |
| Commercial Banks | 0.8981547 | -5.7 | -50.16 |
| Commercial Banks | 0.1629976 | 2.12 | 20.85 |
| Commercial Banks | 0.4302131 | 1.92 | 15.97 |
| Commercial Banks | 0.5569897 | 0.25 | 2.33 |
| Commercial Banks | 0.5368647 | 1.18 | 11.47 |


| Commercial Banks | 0.5360918 | 0.22 | 2.93 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5139595 | 1.09 | 14.71 |
| Commercial Banks | 0.6463184 | 1.25 | 17.7 |
| Commercial Banks | 0.594277 | 0.01 | 0.11 |
| Commercial Banks | 0.5176987 | -1.35 | -16.44 |
| Islamic Banks |  | 3.67 | 33.53 |
| Islamic Banks | 0.681969 | 1.85 | 15.95 |
| Islamic Banks | 0.7317073 | 1.69 | 16.46 |
| Islamic Banks | 0.6959656 | 1.56 | 15.94 |
| Commercial Banks | 0.6829559 | -1.37 | -16.89 |
| Commercial Banks | 0.6703432 | 2.14 | 27.03 |
| Commercial Banks | 0.6771313 | 1.59 | 18.22 |
| Commercial Banks | 0.5743831 | 1.44 | 16.41 |
| Commercial Banks | 0.6444618 | 1.34 | 16.45 |
| Commercial Banks | 0.532586 | 1.32 | 15.15 |
| Commercial Banks | 0.4783424 | 1.44 | 36.33 |
| Commercial Banks | 0.5942984 | 1.2 | 31.19 |
| Commercial Banks | 0.6435375 | 0.47 | 13.63 |
| Commercial Banks | 0.5976866 | 0.42 | 12.73 |
| Commercial Banks | 0.5643871 | 0.78 | 22.6 |
| Commercial Banks | 0.5877072 | 2.81 | 59.24 |
| Commercial Banks | 0.5937131 | 1.9 | 28.01 |
| Commercial Banks | 0.5402613 | 0.96 | 12.09 |
| Commercial Banks | 0.5402546 | 0.51 | 6.93 |
| Commercial Banks | 0.4825005 | 0.66 | 10.38 |
| Commercial Banks | 0.6827613 | 0.61 | 10.28 |
| Commercial Banks | 0.6775946 | 0.01 | 0.14 |
| Commercial Banks | 0.6865073 | 0.79 | 7.19 |
| Commercial Banks | 0.5811 | 1.69 | 15.57 |
| Commercial Banks | 0.6444618 | 2.02 | 17.75 |
| Commercial Banks | 0.5325883 | 2.38 | 19.73 |
| Commercial Banks | 0.4783443 | 5.08 | 33.33 |
| Commercial Banks | 0.5942984 | 4.17 | 22.42 |
| Commercial Banks | 0.6435375 | 2.12 | 10.55 |
| Commercial Banks | 0.5976866 | 1.64 | 7.4 |
| Commercial Banks | 0.5643871 | 1.7 | 7.17 |
| Commercial Banks | 0.5877072 | 2.08 | 8.24 |
| Commercial Banks | 0.5937146 | 0.74 | 3.36 |
| Commercial Banks | 0.5402645 | 1.38 | 7.3 |
| Commercial Banks | 0.5626918 | 2.45 | 14.3 |
| Commercial Banks | 0.5191368 | 1.36 | 8.55 |
| Commercial Banks | 0.5175667 | 2.15 | 13.33 |
| Commercial Banks | 0.5865965 | 0.94 | 27.96 |
| Commercial Banks | 0.5400971 | 0.69 | 17.84 |
| Commercial Banks | 0.6171377 | 0.51 | 12.95 |
| Commercial Banks | 0.5897941 | 0.1 | 2.25 |
| Commercial Banks | 0.6583425 | 0.35 | 6.77 |
| Commercial Banks | 0.6435561 | 3.05 | 48.19 |
| Commercial Banks | 0.5567495 | 2.56 | 31.81 |
| Commercial Banks | 0.6388153 | 1.56 | 5.01 |
| Commercial Banks | 0.4708418 | 0.38 | 1.83 |
| Commercial Banks | 0.499828 | 0.94 | 5.79 |


| Commercial Banks | 0.5582148 | 2.5 | 22.72 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.4304772 | 2.83 | 28.14 |
| Commercial Banks | 0.4413043 | 2.01 | 21.62 |
| Commercial Banks | 0.3690789 | 1.81 | 20.28 |
| Commercial Banks | 0.2601807 | 2.43 | 29.05 |
| Commercial Banks | 0.1850194 | 1.83 | 24.66 |
| Commercial Banks | 0.1043005 | 1.56 | 24.54 |
| Commercial Banks | 0.0835599 | 1.56 | 23.81 |
| Commercial Banks | 0.0636607 | 1.25 | 19.13 |
| Commercial Banks | 0.1106177 | 1.07 | 17.81 |
| Commercial Banks | 0.0581118 | 1.35 | 28.06 |
| Commercial Banks | 0.0583244 | 1.61 | 37.08 |
| Commercial Banks | 0.0895803 | 1.41 | 26.55 |
| Commercial Banks |  | 1.68 | 26.31 |
| Commercial Banks |  | 1.59 | 17.75 |
| Commercial Banks |  | 1.36 | 15.29 |
| Commercial Banks |  | 1.51 | 17.38 |
| Commercial Banks |  | 3.61 | 34.7 |
| Commercial Banks |  | 0.95 | 7.48 |
| Commercial Banks | 0.0000831 | 1.42 | 10.43 |
| Commercial Banks | 0.0000863 | 0.52 | 8.24 |
| Commercial Banks |  | 0.78 | 11.51 |
| Commercial Banks |  | 1.74 | 22.23 |
| Commercial Banks |  | 2.58 | 22.72 |
| Commercial Banks |  | 1 | 6.36 |
| Commercial Banks | 0.7925475 | 0.8 | 5.45 |
| Commercial Banks | 0.7765831 | 1.4 | 7.74 |
| Commercial Banks | 0.7109952 | 0.44 | 1.54 |
| Commercial Banks | 0.6470666 | 1.09 | 3.1 |
| Commercial Banks | 0.6974201 | 0.88 | 3.12 |
| Commercial Banks | 0.6599256 | 1.27 | 5.39 |
| Commercial Banks | 0.6041756 | 1.68 | 6.84 |
| Commercial Banks | 0.6099498 | 1.92 | 6.94 |
| Commercial Banks | 0.6614011 | 1.54 | 6.37 |
| Commercial Banks | 0.5498292 | 0.57 | 12.24 |
| Commercial Banks | 0.4672492 | 0.77 | 13.98 |
| Commercial Banks | 0.4590949 | 0.97 | 16.22 |
| Commercial Banks | 0.4033278 | -0.73 | -13.75 |
| Commercial Banks | 0.4025869 | -5 | -184.5 |
| Commercial Banks | 0.4334686 | -4.66 | 229.35 |
| Commercial Banks | 0.0000847 | 2.08 | 29.82 |
| Commercial Banks | 0.0000633 | 2.42 | 30.53 |
| Commercial Banks | 0 | 1.3 | 14.54 |
| Commercial Banks |  | 1.17 | 11.34 |
| Commercial Banks |  | 2.33 | 18.28 |
| Commercial Banks |  | 1.98 | 16.56 |
| Commercial Banks |  | 1.2 | 11.08 |
| Commercial Banks | 0.7424523 | 1.81 | 19.54 |
| Commercial Banks | 0.4564961 | 1.6 | 22.02 |
| Commercial Banks | 0.6494223 | 1.39 | 20.81 |
| Commercial Banks | 0.6258696 | 1.19 | 17.45 |
| Commercial Banks | 0.520463 | 1.33 | 18.4 |


| Commercial Banks | 0.5378212 | 1.42 | 18.75 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5513168 | 1 | 13.57 |
| Commercial Banks | 0.5977467 | 1.54 | 11.11 |
| Commercial Banks | 0.6002765 | 1.23 | 10.25 |
| Commercial Banks | 0.6492066 | 1.63 | 14.03 |
| Commercial Banks | 0.7541242 | 2.01 | 14.82 |
| Commercial Banks | 0.6139989 | 2.57 | 19.9 |
| Commercial Banks | 0.5235865 | 1.36 | 11.59 |
| Commercial Banks | 0.5142536 | 1.54 | 13.18 |
| Commercial Banks | 0.5320089 | 0.35 | 2.68 |
| Commercial Banks | 0.4482056 | 1.17 | 8.49 |
| Commercial Banks | 0.4302191 | 1.12 | 8.06 |
| Commercial Banks | 0.6103022 | 1.01 | 7.18 |
| Commercial Banks | 0.6440471 | 1.05 | 7.28 |
| Commercial Banks | 0.6428443 | 0.46 | 3.26 |
| Commercial Banks | 0.6540412 | 0.55 | 4.68 |
| Commercial Banks | 0.6419949 | 1.54 | 11.11 |
| Commercial Banks | 0.6502771 | 1.23 | 10.25 |
| Commercial Banks | 0.4370571 | 1.63 | 14.03 |
| Commercial Banks | 0.3985578 | 2.01 | 14.82 |
| Commercial Banks | 0.4982699 | 2.57 | 19.9 |
| Commercial Banks | 0.4793661 | 1.36 | 11.59 |
| Commercial Banks | 0.2125 | 1.54 | 13.18 |
| Commercial Banks | 0.2099515 | 0.35 | 2.68 |
| Commercial Banks | 0.23091 | 1.17 | 8.49 |
| Commercial Banks | 0.2579752 | 1.12 | 8.06 |
| Commercial Banks | 0.2297312 | 1.01 | 7.18 |
| Commercial Banks | 0.112373 | 1.05 | 7.28 |
| Commercial Banks | 0.1024191 | 0.46 | 3.26 |
| Commercial Banks | 0.1018613 | 0.55 | 4.68 |
| Commercial Banks | 0.1006949 | 2.74 | 13.76 |
| Commercial Banks | 0.074607 | 3.11 | 16.46 |
| Commercial Banks | 0.6093192 | 4.32 | 23.07 |
| Commercial Banks | 0.672653 | 4.11 | 20.42 |
| Commercial Banks | 0.6467863 | 7.2 | 39.07 |
| Commercial Banks | 0.6670526 | 4.26 | 22.15 |
| Commercial Banks | 0.6101451 | 1.84 | 8.08 |
| Commercial Banks | 0.6140395 | 1.29 | 4.63 |
| Commercial Banks | 0.6810114 | 1.6 | 5.63 |
| Commercial Banks | 0.6239172 | 1.4 | 5.2 |
| Commercial Banks | 0.6006334 | 1.45 | 6.43 |
| Commercial Banks | 0.6326947 | 2.4 | 13.68 |
| Commercial Banks | 0.6518748 | 1.61 | 11.1 |
| Commercial Banks | 0.5870868 | 2.3 | 15.65 |
| Commercial Banks | 0.5813861 | 2.5 | 22.72 |
| Commercial Banks | 0.6566105 | 2.83 | 28.14 |
| Commercial Banks | 0.5822224 | 2.01 | 21.62 |
| Commercial Banks | 0.560466 | 1.81 | 20.28 |
| Commercial Banks | 0.5534317 | 2.43 | 29.05 |
| Commercial Banks | 0.6308742 | 1.83 | 24.66 |
| Commercial Banks | 0.694254 | 1.56 | 24.54 |
| Commercial Banks | 0.6659184 | 1.56 | 23.81 |


| Commercial Banks | 0.7423214 | 1.25 | 19.13 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.732291 | 1.07 | 17.81 |
| Commercial Banks | 0.68424 | 1.35 | 28.06 |
| Commercial Banks | 0.8238021 | 1.61 | 37.08 |
| Commercial Banks | 0.8012363 | 1.41 | 26.55 |
| Commercial Banks | 0.6424536 | 1.68 | 26.31 |
| Commercial Banks | 0.5934442 | 0.8 | 19.01 |
| Commercial Banks | 0.65732 | 1.06 | 17.98 |
| Commercial Banks | 0.5564416 | -0.91 | -15.11 |
| Commercial Banks | 0.4927324 | -0.81 | -13.98 |
| Commercial Banks | 0.4971963 | 1.39 | 13.34 |
| Commercial Banks | 0.4733347 | 1.2 | 13.74 |
| Commercial Banks | 0.5717033 | 0.62 | 7.08 |
| Commercial Banks | 0.6936987 | 3.55 | 35.19 |
| Commercial Banks | 0.7423214 | 1.69 | 16.96 |
| Commercial Banks | 0.732291 | 1.33 | 14.24 |
| Commercial Banks | 0.68424 | 1.34 | 14.34 |
| Commercial Banks | 0.8238021 | 0.51 | 5.43 |
| Commercial Banks | 0.8012363 | -0.65 | -7.51 |
| Commercial Banks | 0.6424536 | 0.63 | 6.54 |
| Commercial Banks | 0.5934442 | 1.59 | 16.02 |
| Commercial Banks | 0.65732 | -0.18 | -2.24 |
| Commercial Banks | 0.5564416 | 0.15 | 1.65 |
| Commercial Banks | 0.4927324 | 1.69 | 13.93 |
| Commercial Banks | 0.4971963 | 1.18 | 9.25 |
| Commercial Banks | 0.4733347 | 0.71 | 6.03 |
| Commercial Banks | 0.5717033 | 1.17 | 11.41 |
| Commercial Banks | 0.6936987 | 0.79 | 8 |
| Commercial Banks | 0.468385 | 0.16 | 2.69 |
| Commercial Banks | 0.310166 | 1.41 | 23.32 |
| Commercial Banks | 0.2915033 | 1.12 | 18.87 |
| Commercial Banks | 0.2389372 | 1.2 | 20.68 |
| Commercial Banks | 0.1377032 | 0.05 | 0.8 |
| Commercial Banks | 0.1009523 | 0.22 | 3.98 |
| Commercial Banks | 0.1163631 | 1.69 | 25.81 |
| Commercial Banks | 0.1775423 | 1.76 | 23.24 |
| Commercial Banks | 0.0943305 | 1.91 | 24.34 |
| Commercial Banks | 0.0893903 | 1.74 | 22.86 |
| Commercial Banks | 0.0371532 | 2.14 | 16.68 |
| Commercial Banks | 0.01378 | 1.87 | 12.06 |
| Commercial Banks | 0.051823 | -0.94 | -5.81 |
| Commercial Banks | 0.0418159 | 0.37 | 1.1 |
| Commercial Banks | 0.6258696 | -1.75 | -17.91 |
| Commercial Banks | 0.520463 | 3.67 | 33.53 |
| Commercial Banks | 0.5378212 | 1.93 | 15.95 |
| Commercial Banks | 0.5513168 | 1.75 | 16.46 |
| Commercial Banks | 0.5977467 | 1.56 | 15.94 |
| Commercial Banks | 0.6002765 | -1.37 | -16.89 |
| Commercial Banks | 0.6492066 | 2.14 | 27.03 |
| Commercial Banks | 0.7541242 | 1.59 | 18.22 |
| Commercial Banks | 0.6139989 | 1.44 | 16.41 |
| Commercial Banks | 0.5235865 | 1.34 | 16.45 |


| Commercial Banks | 0.5142536 | 1.32 | 15.15 |
| :---: | :---: | :---: | :---: |
| Commercial Banks | 0.5320089 | -1.24 | -1.28 |
| Commercial Banks | 0.4482067 | -0.47 | -1.09 |
| Commercial Banks | 0.4302191 | -1.03 | -4.71 |
| Commercial Banks | 0.5500726 | 0.05 | 1.02 |
| Commercial Banks | 0.5152138 | -0.34 | -6.18 |
| Commercial Banks | 0.6310263 | 0.35 | 6.32 |
| Commercial Banks | 0.7604228 | 0.62 | 11.94 |
| Commercial Banks | 0.7421565 | 0.36 | 6.8 |
| Commercial Banks | 0.7647121 | 0.22 | 4.2 |
| Commercial Banks | 0.7711105 | 0.54 | 8.19 |
| Commercial Banks | 0.7405308 | 0.38 | 4.42 |
| Commercial Banks | 0.784761 | 0.25 | 3.47 |
| Commercial Banks | 0.7848364 | 0.34 | 5.59 |
| Commercial Banks | 0.7814688 | 0.16 | 2.83 |
| Commercial Banks | 0.6247749 | 0.05 | 1.02 |
| Commercial Banks | 0.6812171 | -0.37 | -6.67 |
| Commercial Banks | 0.6920429 | 0.35 | 6.26 |
| Commercial Banks | 0.5775719 | 0.62 | 11.94 |
| Commercial Banks | 0.3932081 | 0.75 | 14.89 |
| Commercial Banks | 0.3678115 | 0.78 | 18.23 |
| Commercial Banks | 0.1640725 | 0.45 | 11.24 |
| Commercial Banks | 0.1254019 | 0.52 | 9.93 |
| Commercial Banks | 0.1275268 | -2.7 | -16.7 |
| Commercial Banks | 0.1085503 | 0.22 | 1.73 |
| Commercial Banks | 0.0985732 | 0.94 | 10.17 |
| Commercial Banks | 0.0553492 | 0.53 | 10.34 |
| Commercial Banks | 0.0999664 | -25.78 | -33.4 |
| Commercial Banks | 0.6329187 | -6.84 | -29.65 |
| Commercial Banks | 0.6669394 | -1.63 | -14.99 |
| Commercial Banks | 0.6256586 | 0.23 | 2.83 |
| Commercial Banks | 0.5658861 | 0.54 | 7.01 |
| Commercial Banks | 0.669401 | 0.25 | 3.67 |
| Commercial Banks | 0.6305083 | 0.59 | 8.01 |
| Commercial Banks | 0.5712069 | 1.1 | 14.2 |
| Commercial Banks | 0.5604283 | 1.43 | 17.01 |
| Islamic Banks | 0.3927549 | 0.97 | 10.85 |
| Islamic Banks | 0.3278984 | 0.67 | 7.96 |
| Commercial Banks | 0.694393 | 0.9 | 9.95 |
| Commercial Banks | 0.5317279 | 0.9 | 10.15 |
| Commercial Banks | 0.5971601 | 0.86 | 10.59 |
| Commercial Banks | 0.6018619 | -8.63 | 508.23 |
| Commercial Banks | 0.4413043 | 1.34 | 56.52 |
| Commercial Banks | 0.3690789 | 1.83 | 32.9 |
| Commercial Banks | 0.2828749 | 0.63 | 11.36 |
| Commercial Banks | 0.1850194 | -0.23 | -0.23 |
| Commercial Banks | 0.1043005 | 0.57 | 8.53 |
| Commercial Banks | 0.0835599 |  |  |
| Commercial Banks | 0.0636607 | 2 | 16 |
| Commercial Banks | 0.1106342 | 1.11 | 9.12 |
| Commercial Banks | 0.0581118 | 1.25 | 11.52 |
| Commercial Banks | 0.0583162 | 1.48 | 13.81 |


| Commercial Banks | 0.0895803 | 2.53 | 24.74 |
| :--- | :--- | :---: | :---: |
| Islamic Banks | 0.3858476 | 0.32 | 6.17 |
| Islamic Banks | 0.3827413 | 0.61 | 6.69 |
| Islamic Banks | 0.4044945 | 0.35 | 4.62 |
| Islamic Banks | 0.4186171 | 0.23 | 8.17 |
| Islamic Banks | 0.4130114 | 0.54 |  |

## Appendix B

| Total <br> deposit. | Total loan | Total asset | LDR( Loan to deposit |
| :---: | :---: | :---: | :--- |
| 5573.6 | 4482.5 | 8120.7 | 0.8042378 |
| 0 | 0 | 361.9 |  |
| 897.5 | 90.8 | 1252.8 | 0.1011699 |
| 1492.8 | 249.8 | 1824.6 | 0.1673365 |
| 2570.5 | 1168.3 | 2957 | 0.454503 |
| 2224.4 | 1009.9 | 2745.7 | 0.4540101 |
| 2241.6 | 450.1 | 2743.3 | 0.2007941 |
| 2439.4 | 370.5 | 2954.5 | 0.1518816 |
| 2693.3 | 427.1 | 3349.1 | 0.1585787 |
| 3358.1 | 443.2 | 4082.9 | 0.1319794 |
| 3048.9 | 430.4 | 4366.3 | 0.1411657 |
| 8849.6 | 600.6 | 10848.8 | 0.0678675 |
| 2801.7 | 624 | 6237.5 | 0.2227219 |
| 2542.7 | 14.3 | 3044.8 | 0.0056239 |
| 3300.1 | 11.4 | 3825.1 | 0.0034544 |
| 3255 | 12.3 | 3815.3 | 0.0037788 |
| 4017.6 | 20.1 | 4621.5 | 0.005003 |
| 4753.6 | 22.1 | 5421.8 | 0.0046491 |
| 6128.4 | 0.9 | 6826.8 | 0.0001469 |
| 5078.9 | 1 | 5871.3 | 0.0001969 |
| 7354.1 | 0 | 8128.3 | 0 |
| 5558.2 | 6 | 6443 | 0.0010795 |
| 246.405 | 214.23 | 270.399 | 0.8694223 |
| 344.607 | 250.653 | 360.731 | 0.727359 |
| 386.726 | 297.163 | 411.596 | 0.768407 |
| 17172.5 | 13110.8 | 20188 | 0.7634765 |
| 18544.1 | 13550.9 | 21272.9 | 0.7307392 |
| 20518.9 | 15394.8 | 23687.7 | 0.7502741 |
| 25571 | 17452.6 | 29803.2 | 0.6825153 |
| 29955.9 | 19710.3 | 34908.5 | 0.6579772 |
| 33547.1 | 19461.1 | 39128.3 | 0.5801127 |
| 35460.9 | 19551.6 | 41914.9 | 0.5513566 |
| 31832.5 | 19211.2 | 40317.7 | 0.6035089 |
| 34869.9 | 21146 | 41073.7 | 0.6064256 |
| 790.1 | 676.3 | 1114.4 | 0.8559676 |
| 1291 | 889.6 | 1958.1 | 0.6890782 |
| 2545.5 | 1635 | 3688.3 | 0.64231 |
| 2298.6 | 1330.5 | 3271 | 0.5788305 |
| 122.8 | 150.1 | 204.5 | 1.222313 |
| 553.3 | 309.4 | 771.6 | 0.5591903 |
| 10.3 |  |  |  |


| 1471.1 | 594.3 | 1853.8 | 0.4039834 |
| :---: | :---: | :---: | :--- |
| 1730 | 518 | 1896.2 | 0.299422 |
| 2783.3 | 593.5 | 2973.3 | 0.2132361 |
| 2755.9 | 560.2 | 2961.1 | 0.203273 |
| 2758 | 520.7 | 2972.6 | 0.1887962 |
| 2712.9 | 1639.2 | 3016.2 | 0.6042243 |
| 2903.3 | 1938.7 | 3259 | 0.6677573 |
| 2934.8 | 2479.3 | 3651 | 0.8447935 |
| 4040.4 | 2729.2 | 5206.1 | 0.6754777 |
| 4374.1 | 3297.1 | 5594.8 | 0.7537779 |
| 2504.9 | 1468.6 | 5605.4 | 0.5862909 |
| 1559.1 | 970.2 | 1657.1 | 0.6222821 |
| 1645 | 1012.9 | 176.1 | 0.6157447 |
| 2135.6 | 954.9 | 2273.6 | 0.4471343 |
| 1948.7 | 752.8 | 2128 | 0.3863088 |
| 2322 | 1063.3 | 2557.5 | 0.4540137 |
| 2321.6 | 1137.5 | 2576.5 | 0.4899638 |
| 199.1 | 841.6 | 2179.6 | 0.4224688 |
| 6846.5 | 2140.9 | 7315.9 | 0.3126999 |
| 7459 | 2703.3 | 8061.4 | 0.3624212 |
| 9606.4 | 3962.5 | 10269.6 | 0.4124854 |
| 12295.6 | 5148.1 | 13464.2 | 0.4186945 |
| 12408.2 | 5585.2 | 13814.7 | 0.4501217 |
| 12715.1 | 6042.7 | 14415.7 | 0.4752381 |
| 13833.1 | 6578.2 | 15914.9 | 0.4755406 |
| 3160.7 | 1001.6 | 3508.8 | 0.3168918 |
| 4762.1 | 1726.8 | 5121.4 | 0.3626131 |
| 5008.7 | 1968.6 | 5438.7 | 0.3930361 |
| 6133.3 | 2159.9 | 6565.8 | 0.3521595 |
| 6846.5 | 2141 | 7315.9 | 0.3127145 |
| 7459 | 2703.3 | 8070.8 | 0.3624212 |
| 9606.3 | 3962.6 | 10269.6 | 0.4125001 |
| 12295.4 | 5148.1 | 13464.2 | 0.4187013 |
| 3123.8 | 1227.3 | 3902.9 | 0.3928869 |
| 5787.5 | 1734.1 | 6267 | 0.2996285 |
| 5513.3 | 2449.9 | 6069.6 | 0.4443618 |
| 5865.8 | 2880.7 | 6525.8 | 0.491101 |
| 432.59 | 6.236 | 521.232 | 0.0144155 |
| 4136.548 | 1618.472 | 4795.642 | 0.3912615 |
| 8097.272 | 2025.452 | 8989.03 | 0.25014 |
| 17558.162 | 5970.502 | 18654.029 | 0.3400414 |
| 41.862 | 2.408 | 291.376 | 0.0575223 |
| 2073.832 | 1866.779 | 2540.995 | 0.9001592 |
| 4367.141 | 2860.348 | 4799.361 | 0.6549703 |
| 4623.132 | 4089.622 | 5135.018 | 0.8845999 |
| 5464.079 | 4553.237 | 6130.118 | 0.8333036 |
| 6369.039 | 4702.496 | 7095.219 | 0.7383368 |
| 118.7 |  | 505.1 |  |
| 190.1 | 165 | 516.5 | 0.8679642 |
| 513 | 257.1 | 853.8 | 0.5011696 |
| 522.5 | 253.5 | 856.9 | 0.4851675 |
| 499.5 | 286.5 | 878.6 | 0.5735736 |


|  |  |  |  |
| :---: | :---: | :---: | :--- |
| 717.6 | 335.3 | 1083.3 | 0.467252 |
| 681.5 | 376.7 | 1101.3 | 0.5527513 |
| 898.1 | 741.9 | 1276.4 | 0.8260773 |
| 6605.8 | 3400.4 | 7623.7 | 0.5147598 |
| 7125.3 | 4147.6 | 8092.3 | 0.5820948 |
| 7227.7 | 4514.8 | 8404.4 | 0.6246523 |
| 8229 | 5351.7 | 9369.6 | 0.6503463 |
| 49987.9 | 32543 | 60008.6 | 0.6510175 |
| 53945.6 | 36374 | 66912.5 | 0.6742718 |
| 66524.8 | 45297.7 | 82904.9 | 0.6809145 |
| 69902.6 | 56277.2 | 86936.1 | 0.8050802 |
| 71475.7 | 57489.4 | 87592 | 0.8043209 |
| 79885.8 | 61003.9 | 96806.3 | 0.7636389 |
| 93352.2 | 74574.6 | 111473.5 | 0.7988521 |
| 96978.2 | 75007.3 | 117615.2 | 0.7734449 |
| 104701.7 | 80160.4 | 127654.3 | 0.7656074 |
| 117384.8 | 86718.5 | 143551.1 | 0.7387541 |
| 145572.1 | 115481.6 | 175434.7 | 0.7932949 |
| 164392.6 | 127848.4 | 197135.3 | 0.7777017 |
| 175516.3 | 118557 | 227447.2 | 0.6754757 |
| 180752.7 | 138855.4 | 219172.5 | 0.7682065 |
| 193574.8 | 144431.8 | 238277.1 | 0.7461292 |
| 2383.7 | 1293.7 | 2838 | 0.5427277 |
| 2603.5 | 1651.3 | 3193.6 | 0.6342616 |
| 3885.7 | 3238 | 4769.8 | 0.8333119 |
| 5369.5 | 4348.4 | 6489.9 | 0.8098333 |
| 6832.7 | 6009.2 | 8359.3 | 0.8794767 |
| 7829.3 | 6930.5 | 9120.3 | 0.8852005 |
| 7900 | 6400.4 | 9328.9 | 0.8101772 |
| 14916.2 | 12948.9 | 17595 | 0.8681099 |
| 15721.1 | 12989.8 | 18965.1 | 0.8262653 |
| 16699.9 | 13249.5 | 20133.3 | 0.7933879 |
| 19060.9 | 14556.4 | 23262.1 | 0.7636786 |
| 18925.5 | 14631.5 | 23565.9 | 0.7731103 |
| 19622.5 | 13549.6 | 23580.9 | 0.6905134 |
| 21662.1 | 13433.6 | 26346.6 | 0.620143 |
| 22873.2 | 15619 | 27644.4 | 0.6828516 |
| 27421.1 | 18718.2 | 31847.9 | 0.6826203 |
| 12955.1 | 7103.7 | 16296.2 | 0.5483323 |
| 13795 | 8496.1 | 16642.5 | 0.6158825 |
| 13925.8 | 9173.4 | 17020.7 | 0.6587342 |
| 22152.8 | 16310.3 | 27959.1 | 0.7362636 |
| 23810.7 | 10508.9 | 28001.2 | 0.441352 |
| 27908.7 | 14681.9 | 33149.7 | 0.526069 |
| 29776.6 | 17700.4 | 36157.3 | 0.5944399 |
| 35286.9 | 20461 | 41882.1 | 0.5798469 |
| 35653.6 | 19730 | 41951.8 | 0.5533803 |
| 36643.9 | 21618.5 | 43237.6 | 0.5899618 |
| 37107.9 | 24393.7 | 45227.7 | 0.6573722 |
| 42945.6 | 30713 | 53225.2 | 0.7151605 |
| 50499.6 | 37575 | 61865.6 | 0.7440653 |
| 52422.1 | 45539.6 | 64577.2 | 0.86871 |


| 78463.2 | 55718.8 | 92329.6 | 0.7101265 |
| :---: | :---: | :---: | :--- |
| 91810.3 | 66812.8 | 111688.7 | 0.7277266 |
| 117431.2 | 82787.7 | 147789.5 | 0.704989 |
| 149202.7 | 99327.9 | 174155.2 | 0.6657245 |
| 167869.5 | 118386.3 | 196163.1 | 0.7052281 |
| 193505.9 | 135335.8 | 217136.2 | 0.6993884 |
| 13272.4 | 9957.9 | 15949.8 | 0.7502713 |
| 13920.4 | 11826.2 | 17551.9 | 0.8495589 |
| 18667.9 | 14211.3 | 22768.2 | 0.7612693 |
| 29373.6 | 22593.6 | 36397.1 | 0.7691805 |
| 40014.4 | 31364.5 | 49454.6 | 0.7838303 |
| 38854.9 | 31229.6 | 48930.9 | 0.8037494 |
| 38507.4 | 33303.4 | 48993.1 | 0.8648571 |
| 38994.5 | 32875 | 48498.6 | 0.8430676 |
| 49717.8 | 38109 | 60765.6 | 0.7665061 |
| 59015.3 | 37607.4 | 71320.1 | 0.6372483 |
| 60956.6 | 37090.9 | 74154.5 | 0.6084804 |
| 70488.7 | 46879.3 | 85948.9 | 0.6650612 |
| 69593.1 | 47470.5 | 85063.6 | 0.682115 |
| 67848.1 | 52600.1 | 84238.5 | 0.7752627 |
| 14220.6 | 10505.6 | 16778.9 | 0.7387593 |
| 14295.3 | 11058.2 | 16991.3 | 0.773555 |
| 15167.6 | 12893.8 | 18834.9 | 0.8500884 |
| 20247.9 | 15843.5 | 24404 | 0.7824762 |
| 31210.9 | 26320.5 | 38204.5 | 0.8433111 |
| 42758.4 | 34155 | 51969.7 | 0.7987905 |
| 40696.2 | 33348.5 | 50661.2 | 0.81945 |
| 41551.4 | 36513.9 | 52253.1 | 0.8787646 |
| 42601.9 | 36117.6 | 52314.2 | 0.8477932 |
| 53006.2 | 41521.5 | 64550 | 0.7833329 |
| 63122.7 | 43105.1 | 77087.4 | 0.682878 |
| 59302.5 | 47634.2 | 84755.5 | 0.803241 |
| 65661.8 | 52741.6 | 95124.4 | 0.8032312 |
| 78360.2 | 53703.1 | 94483.9 | 0.6853364 |
| 77764.9 | 60127.9 | 94937.6 | 0.773201 |
| 9707.6 | 7738.6 | 11321.5 | 0.7971693 |
| 12713 | 9146.4 | 14624.5 | 0.7194526 |
| 13014.5 | 9800.2 | 14946.6 | 0.7530217 |
| 15799.5 | 11843.2 | 18644.2 | 0.7495934 |
| 16534 | 13339.8 | 19298.6 | 0.8068102 |
| 47800.7 | 28879.7 | 57489.4 | 0.604169 |
| 48969.3 | 33291.5 | 58436.8 | 0.6798443 |
| 49473.4 | 37422.2 | 58559.4 | 0.7564105 |
| 51472.5 | 38349.2 | 62994.7 | 0.7450425 |
| 52954 | 39908.7 | 66712.5 | 0.7536485 |
| 61910.4 | 43514.6 | 73913 | 0.7028642 |
| 70822.6 | 54153.5 | 86489.4 | 0.7646359 |
| 99437.7 | 72965.4 | 127779.8 | 0.73378 |
| 113093.5 | 73011.8 | 139958.5 | 0.6455879 |
| 117674.5 | 84922.2 | 147069.9 | 0.7216704 |
| 62454.3 | 38991.4 | 72488.2 | 0.6243189 |
| 68510.1 | 48939.5 | 81779.3 | 0.7143399 |


| 76868.6 | 56462.8 | 94202.5 | 0.7345366 |
| :---: | :---: | :---: | :--- |
| 91212.1 | 64741.8 | 110438.2 | 0.709794 |
| 94375.4 | 77852.1 | 114514.2 | 0.8249195 |
| 97934.3 | 76301.4 | 117478.5 | 0.779108 |
| 105905.2 | 79177.5 | 127072.1 | 0.7476262 |
| 119212.2 | 92654 | 140897.3 | 0.7772191 |
| 120907.5 | 95453.1 | 150656 | 0.7894721 |
| 128593.8 | 102488.5 | 160955.4 | 0.7969941 |
| 144852.2 | 109070.5 | 179507.4 | 0.7529778 |
| 157056.9 | 119593.8 | 191895.3 | 0.7614679 |
| 164985.7 | 131453.6 | 224283.9 | 0.7967575 |
| 193211.5 | 140864.8 | 25667.3 | 0.7290705 |
| 210249 | 164614.2 | 269100.7 | 0.7829488 |
| 241380.5 | 185783.2 | 310739.1 | 0.7696695 |
| 25674.1 | 15269.3 | 29699.1 | 0.5947356 |
| 35689.7 | 16740.9 | 39298.7 | 0.4690681 |
| 33572.5 | 19721.6 | 37520 | 0.5874332 |
| 40294.1 | 25497.2 | 45571.8 | 0.6327775 |
| 48328 | 29052.2 | 54713.3 | 0.6011463 |
| 50591.1 | 32573.6 | 54975.9 | 0.6438603 |
| 2175.2 | 1923.4 | 2972.7 | 0.8842406 |
| 4170.5 | 3495.8 | 5329.1 | 0.8382208 |
| 6277 | 4885.9 | 7455.2 | 0.7783813 |
| 5266.9 | 4460 | 6129.4 | 0.8467979 |
| 6273.6 | 4803.5 | 7306.3 | 0.7656688 |
| 3440.6 | 2116.5 | 4046.8 | 0.6151543 |
| 3659.1 | 2732 | 4657.3 | 0.7466317 |
| 4724 | 3649.9 | 6177 | 0.7726291 |
| 5898.1 | 4472.7 | 7898.9 | 0.758329 |
| 5813.5 | 5150.6 | 7839.6 | 0.8859723 |
| 7430.4 | 6326.2 | 10210.9 | 0.8513943 |
| 12717.8 | 11809.5 | 17340.5 | 0.9285804 |
| 13169.7 | 12106.3 | 17425.6 | 0.919254 |
| 13990.9 | 13230.4 | 18634.8 | 0.9456432 |
| 16480.3 | 14118.8 | 21504.8 | 0.8567076 |
| 17243.8 | 15018.5 | 23477.1 | 0.8709507 |
| 18396 | 16280.7 | 25089.8 | 0.885013 |
| 3767.7 | 2682.6 | 4772.7 | 0.7119994 |
| 4733 | 3566.3 | 5798.6 | 0.7534967 |
| 5758.3 | 4420.6 | 7021.2 | 0.7676919 |
| 5961.1 | 4624.9 | 7085.1 | 0.7758467 |
| 6216.9 | 4880.5 | 7445.1 | 0.7850376 |
| 3786.1 | 2728.8 | 4667.5 | 0.7207416 |
| 477.6 | 3985.6 | 6041.9 | 0.8342264 |
| 6349.3 | 5025.3 | 7923.8 | 0.7914731 |
| 7134 | 5654.4 | 8614.9 | 0.7925988 |
| 6464.3 | 4753 | 7986.1 | 0.7352691 |
| 6412.4 | 4670.3 | 7605.8 | 0.7283232 |
| 4272.9 | 2712.1 | 4981.1 | 0.6347212 |
| 4493.1 | 3346.7 | 5617.7 | 0.7448532 |
| 5688.7 | 4508.9 | 7324.4 | 0.7926064 |
| 7047.6 | 5437.4 | 9203.5 | 0.771525 |


| 6816.8 | 6067.6 | 9075.1 | 0.8900951 |
| :---: | :---: | :---: | :---: |
| 14054.1 | 11458.2 | 17599.6 | 0.8152924 |
| 19149.7 | 16771.6 | 24067.2 | 0.8758153 |
| 19829.8 | 17491 | 24655.6 | 0.8820562 |
| 20523.7 | 19137.3 | 26054.6 | 0.9324489 |
| 23447 | 20562.1 | 29800.5 | 0.8769608 |
| 23178.4 | 21506.8 | 31104.9 | 0.9278811 |
| 24717.2 | 22702.8 | 32700.2 | 0.9185022 |
| 1001.7 | 820.6 | 1181.6 | 0.8192073 |
| 1287.7 | 1061.5 | 1512.7 | 0.824338 |
| 1618.6 | 1430.7 | 1957.1 | 0.883912 |
| 2282.8 | 1882.1 | 2650.6 | 0.8244699 |
| 1982.7 | 1866.5 | 2432.1 | 0.9413931 |
| 5355.9 | 4226.9 | 7154.3 | 0.7892044 |
| 7106.3 | 6264.8 | 9239.2 | 0.8815839 |
| 9402.9 | 8289.1 | 12082.5 | 0.8815471 |
| 12475.7 | 9979.1 | 15292.3 | 0.7998829 |
| 11940.2 | 9500 | 14380 | 0.7956315 |
| 12452.3 | 9636.1 | 15012.3 | 0.773841 |
| 13168.8 | 9295.4 | 15645.5 | 0.7058654 |
| 16547.4 | 13689.6 | 20247.5 | 0.8272961 |
| 16864.4 | 12406.1 | 20689.4 | 0.7356383 |
| 17519.1 | 10743.9 | 21148.5 | 0.6132678 |
| 14295.8 | 10708.1 | 18051 | 0.7490382 |
| 19993.8 | 16436.2 | 25004.4 | 0.8220648 |
| 25134.3 | 16986.7 | 29425.4 | 0.6758373 |
| 27877.7 | 16848.7 | 31909.4 | 0.6043791 |
| 29048.7 | 19516.3 | 33011.4 | 0.6718476 |
| 31464 | 21989.3 | 35598.6 | 0.6988717 |
| 2376.4 | 1753.4 | 2976.6 | 0.7378388 |
| 2736.7 | 2123.5 | 3339.6 | 0.7759345 |
| 3722.8 | 2757.4 | 4398.2 | 0.740679 |
| 3770.4 | 2980.7 | 4621.7 | 0.7905527 |
| 3813.1 | 3111.1 | 4713.8 | 0.8158978 |
| 4453.8 | 3549.7 | 5431.3 | 0.7970048 |
| 8706.9 | 6306 | 10379.4 | 0.7242531 |
| 11471.9 | 9128.2 | 14069 | 0.7957008 |
| 16586.4 | 13574.4 | 20517.3 | 0.8184054 |
| 19002.8 | 15075.8 | 22608.8 | 0.7933462 |
| 21078.3 | 14691.8 | 24539.4 | 0.6970106 |
| 31212.8 | 20300.8 | 35363.7 | 0.6503999 |
| 34761.9 | 22821.6 | 40237.5 | 0.6565119 |
| 37248 | 23382.3 | 43020.6 | 0.6277465 |
| 37900.3 | 22536.2 | 43568.6 | 0.594618 |
| 42848.6 | 22970.1 | 49060.4 | 0.5360758 |
| 51504.3 | 25582.7 | 57623.7 | 0.49671 |
| 53944.8 | 28618.9 | 60596.3 | 0.5305219 |
| 61833 | 31654.9 | 71423.8 | 0.5119419 |
| 68920.5 | 34534 | 77461.2 | 0.5010701 |
| 69987.5 | 34795.4 | 79404.5 | 0.4971659 |
| 30339.6 | 13378.1 | 33630.3 | 0.4409451 |
| 27252.5 | 16207.6 | 30747.6 | 0.5947197 |
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| 32106.1 | 20935.7 | 36462.5 | 0.6520786 |
| :---: | :---: | :---: | :--- |
| 39294.8 | 22211.1 | 44611.4 | 0.5652427 |
| 40363.1 | 25006.8 | 44182.5 | 0.6195461 |
| 16864.2 | 5866.9 | 19647.8 | 0.3478908 |
| 20021.5 | 8636.7 | 23263.7 | 0.4313713 |
| 21373 | 10511.8 | 24953.4 | 0.4918261 |
| 25768.6 | 11112.9 | 29444.4 | 0.4312575 |
| 26520.8 | 11604.2 | 30479.1 | 0.4375509 |
| 26552.4 | 12970.7 | 30898.1 | 0.4884945 |
| 27777.3 | 14583.1 | 32414.7 | 0.5250006 |
| 33733.3 | 19653.3 | 40563.1 | 0.5826083 |
| 38737.3 | 22540.6 | 46497.7 | 0.5818836 |
| 48201.3 | 27266.1 | 57962.3 | 0.5656714 |
| 76049.7 | 53856.1 | 88932.7 | 0.7081698 |
| 92685.7 | 64579.9 | 107447.3 | 0.6967623 |
| 116547 | 75891.4 | 134267 | 0.6511656 |
| 135773.9 | 89805.7 | 158471.1 | 0.6614357 |
| 14183.8 | 93174.3 | 166698.9 | 0.6599504 |
| 156171.4 | 107962.8 | 176576.6 | 0.6913096 |
| 700.1 | 426.3 | 797.6 | 0.608913 |
| 736.5 | 519.5 | 863.3 | 0.7053632 |
| 1405.8 | 640.6 | 1534.5 | 0.4556836 |
| 787.1 | 645.3 | 920.9 | 0.819845 |
| 1218.1 | 778.8 | 1389.7 | 0.6393564 |
| 3257.3 | 2106.7 | 3870.2 | 0.6467626 |
| 4784.5 | 3629 | 5853.9 | 0.758491 |
| 7648.3 | 5757.3 | 9198.5 | 0.7527555 |
| 9251 | 6709.2 | 11027.6 | 0.7252405 |
| 8772.6 | 6221.6 | 10359.2 | 0.7092083 |
| 8074.4 | 5838.8 | 9738 | 0.7231249 |
| 10664 | 5740 | 12609.6 | 0.5382596 |
| 11175.1 | 6841.3 | 13119.7 | 0.6121914 |
| 10872 | 7384.1 | 13146.2 | 0.6791851 |
| 16401.9 | 13141.9 | 20345.8 | 0.8012425 |
| 504.3 | 405.2 | 573.4 | 0.80349 |
| 581.3 | 474.1 | 670.2 | 0.8155858 |
| 802.9 | 587.9 | 908.9 | 0.7322207 |
| 894.9 | 665.2 | 1001.8 | 0.7433233 |
| 859.9 | 646.7 | 961 | 0.7520642 |
| 869.6 | 607.5 | 969.7 | 0.6985971 |
| 2850.5 | 1853.6 | 3208.5 | 0.6502719 |
| 3330.8 | 2719.4 | 3966.7 | 0.8164405 |
| 5970.2 | 4830.6 | 6951.9 | 0.8091186 |
| 9152.5 | 7983.4 | 11069.9 | 0.8722644 |
| 11005.3 | 8588.7 | 12890.3 | 0.7804149 |
| 11792.6 | 9348.6 | 13596.9 | 0.7927514 |
| 14904.4 | 11658.7 | 17791.9 | 0.7822321 |
| 20048.6 | 17387.8 | 24721 | 0.8672826 |
| 26991.4 | 20573.6 | 30963 | 0.762228 |
| 26906.3 | 21288.4 | 31881.1 | 0.791205 |
| 27626.2 | 23556.7 | 33543.5 | 0.8526942 |
| 29953.9 | 25925.7 | 35798.1 | 0.86552 |
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| 33250.1 | 27192.1 | 39406.3 | 0.817805 |
| :---: | :---: | :---: | :--- |
| 34668.8 | 28232.8 | 41386.5 | 0.8143576 |
| 36673.8 | 29637.6 | 43563.6 | 0.8081409 |
| 118.7 |  | 505.1 |  |
| 2577 | 813.2 | 3008.5 | 0.3155607 |
| 5106.7 | 3212.6 | 6309.1 | 0.6290951 |
| 7212.3 | 6219.1 | 9636.9 | 0.8622909 |
| 217 | 46.9 | 311.2 | 0.216129 |
| 71.6 | 41.2 | 169.7 | 0.575419 |
| 132.8 | 23.8 | 157.1 | 0.1792169 |
| 5836.5 | 3944.7 | 6433.7 | 0.6758674 |
| 5355.7 | 3672.9 | 6224.3 | 0.6896558 |
| 6987.1 | 4242.3 | 8120.8 | 0.6071618 |
| 8009.9 | 3824.9 | 9142 | 0.4775216 |
| 670.7 | 366 | 757.5 | 0.5456985 |
| 682.7 | 334.5 | 773.7 | 0.4899663 |
| 25023.8 | 28581.2 | 32529.6 | 1.142161 |
| 25750.2 | 26009.7 | 33514.3 | 1.010078 |
| 39134.2 | 36564.9 | 47709.6 | 0.9343464 |
| 45908.3 | 40736.5 | 56527.4 | 0.887345 |
| 53289.6 | 43465.5 | 62047.8 | 0.8156469 |
| 63797.7 | 52325.2 | 77254.4 | 0.8201737 |
| 71588.5 | 56739.9 | 84342 | 0.792584 |
| 25025.7 | 28591.7 | 32516.5 | 1.142493 |
| 25752 | 29692.1 | 33503.1 | 1.153002 |
| 28493.2 | 31512.6 | 35118.1 | 1.105969 |
| 45910.2 | 46215.3 | 56241.4 | 1.006646 |
| 46534.7 | 37095.5 | 53584.8 | 0.7971578 |
| 45923.2 | 39948.6 | 55366.4 | 0.8699002 |
| 59845.2 | 46899.9 | 70772.2 | 0.7836869 |
| 1593.8 | 741.4 | 1872.3 | 0.4651776 |
| 1750.6 | 1357.1 | 2261.7 | 0.7752199 |
| 3447 | 2659.1 | 4240.8 | 0.7714245 |
| 5754 | 4791.2 | 7477.4 | 0.832673 |
| 7062.7 | 5094.7 | 8724.7 | 0.7213531 |
| 6581.3 | 5050.2 | 8039.4 | 0.767356 |
| 6955.9 | 5310.6 | 9154.4 | 0.763467 |
| 12756.7 | 9787.8 | 16118.1 | 0.7672673 |
| 17324.7 | 11283.8 | 19884.5 | 0.6513129 |
| 16701.8 | 11864.4 | 20400.7 | 0.7103665 |
| 27833.8 | 23552.3 | 33632.5 | 0.8461762 |
| 30225.3 | 25922.3 | 35942.5 | 0.8576358 |
| 28557.4 | 23099.3 | 34499 | 0.8088727 |
| 29411.6 | 23557.8 | 35681.8 | 0.8009697 |
| 30812.6 | 24825.2 | 37274.7 | 0.8056834 |
| 5373.2 | 4227 | 7161 | 0.786682 |
| 7113.3 | 6264.8 | 9243.4 | 0.8807164 |
| 9415.3 | 8289.1 | 12091.2 | 0.8803862 |
| 12482.6 | 9979.1 | 15299.5 | 0.7994408 |
| 11952.4 | 9500 | 14385.3 | 0.7948194 |
| 12461.6 | 9636.1 | 15011.7 | 0.7732635 |
| 13175.7 | 9295.4 | 15642.9 | 0.7054957 |
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| 16563.8 | 13639.2 | 20248.5 | 0.8234342 |
| :---: | :---: | :---: | :--- |
| 16882.3 | 12365 | 20684.7 | 0.7324238 |
| 17523.1 | 10698.9 | 21138 | 0.6105598 |
| 14299.9 | 10689.3 | 18044.2 | 0.7475087 |
| 19996.7 | 16423.1 | 24993.4 | 0.8212906 |
| 22018 | 15746.7 | 26181 | 0.715174 |
| 22308.8 | 15100.3 | 26233.5 | 0.6768764 |
| 23901.6 | 17054.1 | 27730.5 | 0.7135129 |
| 26336.3 | 19108.6 | 30333.1 | 0.7255613 |
| 9803.8 | 7980.3 | 11430.3 | 0.8140007 |
| 13099.9 | 9551 | 15040.9 | 0.7290895 |
| 13391.8 | 10403.7 | 15372.5 | 0.776871 |
| 16691 | 13335.1 | 20063.5 | 0.7989395 |
| 17134.4 | 13983.7 | 20456.9 | 0.8161184 |
| 53560.8 | 31372.4 | 63637.9 | 0.5857344 |
| 53081.6 | 35648 | 63179.4 | 0.6715698 |
| 52429.1 | 41267.2 | 63228.1 | 0.7871048 |
| 56883.8 | 43471.6 | 68989.2 | 0.7642176 |
| 56707.3 | 46844.7 | 73225 | 0.8260788 |
| 67187.1 | 52927.2 | 83177.2 | 0.7877584 |
| 68468.9 | 57188.6 | 91448 | 0.8352493 |
| 97535.7 | 76986.6 | 133151.4 | 0.7893171 |
| 124884.6 | 80617.5 | 155011.6 | 0.6455359 |
| 136240.3 | 95687.1 | 168151 | 0.7023407 |
| 161053.2 | 113480.7 | 196471.3 | 0.7046162 |
| 2642.2 | 2231 | 3233 | 0.8443722 |
| 3344.8 | 2706.7 | 4029.7 | 0.8092262 |
| 3746.7 | 2886.6 | 4695.7 | 0.770438 |
| 9510.4 | 7125.4 | 11959.8 | 0.7492219 |
| 8124 | 6377.5 | 10109.7 | 0.7850197 |
| 7239.4 | 5940.6 | 9119.8 | 0.8205929 |
| 9707.2 | 7141.5 | 12169.5 | 0.735691 |
| 9512.3 | 7300 | 12560.7 | 0.7674274 |
| 15174.1 | 12997.9 | 19795.3 | 0.8565846 |
| 19889.2 | 14564.7 | 25006.4 | 0.7322919 |
| 23037.3 | 16189.9 | 28867.5 | 0.702769 |
| 25446.9 | 17201 | 31054.4 | 0.6759566 |
| 25827.7 | 20232.2 | 32032.8 | 0.7833527 |
| 29150.8 | 25004.6 | 35978.1 | 0.8577672 |
| 34299.4 | 27586 | 41383.8 | 0.8042707 |
| 2383.7 | 1295.4 | 2838.2 | 0.5434409 |
| 2603.5 | 1653 | 3193.7 | 0.6349145 |
| 3886.7 | 3239.6 | 4770.2 | 0.8335092 |
| 5369.7 | 4349.9 | 6489.1 | 0.8100824 |
| 6835.4 | 6010.8 | 8358.8 | 0.8793633 |
| 5900.1 | 5532.8 | 7156.1 | 0.9377468 |
| 7907.1 | 6401.6 | 9330.2 | 0.8096015 |
| 11365.8 | 10296.6 | 14016.2 | 0.9059283 |
| 12645.3 | 10606.8 | 15872.3 | 0.8387939 |
| 13535.1 | 10912.9 | 16812.8 | 0.8062667 |
| 16225.6 | 12424.1 | 20027.1 | 0.7657098 |
| 17408 | 13952.1 | 21554.8 | 0.8014763 |


| 17996.8 | 12913.8 | 21687.6 | 0.7175609 |
| :---: | :---: | :---: | :---: |
| 20164.8 | 13019.5 | 24337.9 | 0.6456548 |
| 19472.9 | 13305.7 | 25845.2 | 0.6832932 |
| 24315.3 | 16277.9 | 28486.6 | 0.6694509 |
| 3762.2 | 2682.6 | 4718.5 | 0.7130403 |
| 4733.5 | 3577.2 | 5738.4 | 0.7557198 |
| 5760.3 | 4433.1 | 6968.2 | 0.7695954 |
| 5963.5 | 4637.1 | 7033 | 0.7775803 |
| 6219.9 | 4891.7 | 7369.5 | 0.7864596 |
| 14403.4 | 8628.5 | 14598.6 | 0.5990599 |
| 17611.6 | 8452 | 19088.3 | 0.479911 |
| 20812.7 | 9061.3 | 23556.4 | 0.4353736 |
| 25212.7 | 9661.9 | 27488.5 | 0.3832156 |
| 3265.5 | 2106.7 | 3832 | 0.6451386 |
| 4797.1 | 3628.9 | 5815.4 | 0.7564778 |
| 7665.2 | 5757.2 | 9143.2 | 0.7510828 |
| 9273.9 | 6710.8 | 10956.1 | 0.7236221 |
| 8848.3 | 6252.8 | 10330.8 | 0.7066668 |
| 8087.2 | 5869.7 | 9632.3 | 0.7258013 |
| 348.1 | 282.5 | 410.9 | 0.8115484 |
| 404.4 | 334 | 485.6 | 0.8259149 |
| 576.5 | 419.9 | 673.9 | 0.7283608 |
| 625.1 | 481.9 | 722.6 | 0.7709167 |
| 597.9 | 489.6 | 692.9 | 0.818866 |
| 869.7 | 607.5 | 983.3 | 0.6985167 |
| 2178.7 | 1914.3 | 2974.4 | 0.8786433 |
| 3981.4 | 3256.3 | 5120.1 | 0.8178782 |
| 6030.7 | 4594.1 | 7187.1 | 0.7617855 |
| 5039.1 | 4317.5 | 5971.6 | 0.8567998 |
| 6184.4 | 4806.3 | 7288.1 | 0.7771651 |
| 6112.2 | 5019.5 | 7365.9 | 0.8212264 |
| 8264.2 | 6645.1 | 9879.3 | 0.8040827 |
| 10889.1 | 8941.2 | 13124.9 | 0.8211147 |
| 14581.2 | 11493.9 | 17363.1 | 0.7882684 |
| 12786.2 | 10990.6 | 14974.6 | 0.8595673 |
| 14241.2 | 11563.9 | 16822.2 | 0.8120032 |
| 17108.8 | 13093.1 | 20111.7 | 0.7652845 |
| 16435 | 14230.4 | 21223.3 | 0.8658594 |
| 17527.1 | 15073.1 | 22416.6 | 0.8599883 |
| 20737.9 | 16657.3 | 25473.7 | 0.8032299 |
| 22606.1 | 19080.7 | 27599.4 | 0.8440509 |
| 25470.8 | 20931 | 30804.1 | 0.8217645 |
| 30701.9 | 23067.7 | 3669.6 | 0.7513443 |
| 35546.9 | 26611.8 | 42187.5 | 0.7486392 |
| 37513.4 | 28044.2 | 44603.5 | 0.7475782 |
| 1941.3 | 1808 | 2452 | 0.9313347 |
| 2742.2 | 2597.4 | 3429.1 | 0.9471956 |
| 3577.9 | 3333.8 | 4525 | 0.9317757 |
| 4792.4 | 4051.7 | 5932.7 | 0.8454428 |
| 4907.5 | 5114.8 | 6117.1 | 1.042241 |
| 4268.5 | 4671.8 | 5496.7 | 1.094483 |
| 4901.1 | 5397.3 | 6051.9 | 1.101243 |


|  |  | 131.5 |  |
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| 14487.2 | 11877.4 | 16450.6 | 0.8198548 |
| 8105.9 | 5059.4 | 9621.4 | 0.6241626 |
| 7895.6 | 6171.5 | 9719.8 | 0.7816378 |
| 8733.7 | 7758.6 | 11517.2 | 0.888352 |
| 13364.5 | 10114.8 | 15769.4 | 0.7568409 |
| 12634.6 | 11150.7 | 16011.2 | 0.8825527 |
| 15637.5 | 11974.9 | 17961 | 0.765781 |
| 17805 | 12790.3 | 20358.5 | 0.7183544 |
| 17172.5 | 13110.8 | 20188 | 0.7634765 |
| 18544.1 | 13550.9 | 21272.9 | 0.7307392 |
| 20518.9 | 15394.8 | 23687.6 | 0.7502741 |
| 25571 | 17452.6 | 29803.1 | 0.6825153 |
| 29955.8 | 19710.3 | 34908.4 | 0.6579794 |
| 33547.1 | 19461.1 | 39128.2 | 0.5801127 |
| 35460.9 | 19551.6 | 41914.9 | 0.5513566 |
| 36303 | 20579.3 | 44055.5 | 0.5668761 |
| 36524 | 23057.2 | 42753 | 0.631289 |
| 4406.4 | 3000.5 | 5537.6 | 0.6809414 |
| 6250.8 | 509.9 | 8178.2 | 0.8147597 |
| 9365.5 | 7849 | 12383.4 | 0.8380759 |
| 10725.1 | 9267.4 | 13754.3 | 0.8640853 |
| 12114.2 | 9181.7 | 15094.7 | 0.7579287 |
| 15568.7 | 10072.6 | 18506.2 | 0.6469775 |
| 20484.1 | 11900.5 | 24701.5 | 0.5809628 |
| 22097.4 | 12545 | 26532.4 | 0.5677139 |
| 23746.4 | 13406.5 | 28510.9 | 0.5645698 |
| 31375.5 | 15546 | 36778.9 | 0.4954821 |
| 51578.5 | 25578.1 | 57761.1 | 0.4959062 |
| 48592.6 | 24671.1 | 55139.1 | 0.5077131 |
| 58041.4 | 27966 | 66161.4 | 0.4818285 |
| 62060.3 | 30306.1 | 69992.8 | 0.4883331 |
| 62093.3 | 30938.1 | 70732.5 | 0.4982518 |
| 6786 | 5563 | 8144.1 | 0.819776 |
| 9264.8 | 7389.7 | 11007.5 | 0.7976103 |
| 12061.2 | 9922.2 | 14443.8 | 0.8226545 |
| 16399.1 | 12638.9 | 19343.9 | 0.770707 |
| 13982.3 | 12058 | 16317.2 | 0.862376 |
| 14232.5 | 11578 | 16841 | 0.8134903 |
| 17089.2 | 13096.1 | 20117.9 | 0.7663378 |
| 16411.1 | 14230.7 | 21225.2 | 0.8671387 |
| 17502.6 | 15074.1 | 22419.3 | 0.8612492 |
| 20717.7 | 16658.3 | 25476.2 | 0.8040614 |
| 22585.1 | 19081.5 | 27593.6 | 0.8448712 |
| 25457.1 | 20931.6 | 30805.8 | 0.8222303 |
| 30687.7 | 23068.1 | 36691.1 | 0.7517051 |
| 35532.3 | 26612 | 42185.8 | 0.7489523 |
| 40549 | 30174.4 | 47872.9 | 0.7441466 |
| 2199.8 | 2044.9 | 2730.6 | 0.9295845 |
| 3102.2 | 2928.9 | 3819.4 | 0.9441364 |
| 4033.9 | 3784.3 | 5012.9 | 0.9381244 |
| 5235.3 | 4598.7 | 6379 | 0.8784025 |
|  |  |  |  |


| 4906.1 | 5122.7 | 6081.7 | 1.044149 |
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| 4263.7 | 4675.1 | 5456.5 | 1.096489 |
| 4898.4 | 5398 | 6010.1 | 1.101992 |
| 1467.7 | 324.3 | 1989.6 | 0.220958 |
| 2951.7 | 1568.6 | 3646.1 | 0.5314226 |
| 6506.1 | 4263.7 | 7654.9 | 0.6553389 |
| 8745.8 | 5319.9 | 9909.2 | 0.6082805 |
| 8997 | 5441.6 | 10150.5 | 0.6048238 |
| 8531.4 | 5235.5 | 10186.6 | 0.6136742 |
| 3269.7 | 2500.8 | 3869.3 | 0.7648408 |
| 4287.4 | 3069.5 | 5165.1 | 0.7159351 |
| 5210 | 3314.1 | 6401.6 | 0.6361037 |
|  |  | 153 |  |
| 7224.6 | 6370 | 9340.6 | 0.8817097 |
| 8478.4 | 8055 | 11008.5 | 0.9500613 |
| 11600.2 | 9810.4 | 14096.1 | 0.8457096 |
| 9520.5 | 7801.2 | 11422.7 | 0.8194107 |
| 12042.3 | 9657.5 | 14406.8 | 0.8019648 |
| 13524.1 | 11440.2 | 16895.1 | 0.8459122 |
| 20522.5 | 13794.5 | 24016.2 | 0.6721647 |
| 20545.3 | 14989.6 | 23259.1 | 0.7295877 |
| 20491.8 | 11995.7 | 22523.5 | 0.5853903 |
| 21597.3 | 11715.8 | 24492.5 | 0.5424659 |
| 20342.3 | 13750.4 | 23137.2 | 0.6759511 |
| 21576 | 15918.8 | 24736.4 | 0.7378013 |
| 25423.8 | 17279.3 | 28910.3 | 0.6796505 |
| 29801.1 | 18963.8 | 33600.7 | 0.6363457 |
| 31889.8 | 21476.7 | 36543.2 | 0.6734661 |
| 35417.3 | 24343.9 | 41002.8 | 0.6873449 |
| 40756.8 | 26007.1 | 48138 | 0.6381046 |
| 41240.7 | 26792.2 | 49591.8 | 0.6496543 |
| 44924 | 25458.8 | 52764.3 | 0.5667082 |
| 10500.4 | 8566.4 | 12546.7 | 0.8158165 |
| 13044.8 | 10541 | 15556.5 | 0.8080615 |
| 14526.6 | 12330.7 | 17961.5 | 0.8488359 |
| 21578.8 | 14608.1 | 25138.7 | 0.6769653 |
| 20545.3 | 14989.6 | 23259.1 | 0.7295877 |
| 20491.7 | 11995.7 | 22523.4 | 0.5853931 |
| 21597.3 | 11715.8 | 24492.4 | 0.5424659 |
| 20342.3 | 13750.4 | 23137.2 | 0.6759511 |
| 21576 | 15918.8 | 24736.4 | 0.7378013 |
| 25423.8 | 17279.3 | 28910.3 | 0.679605 |
| 29801.1 | 18963.8 | 33600.7 | 0.6363457 |
| 31889.8 | 21476.7 | 36543.2 | 0.6734661 |
| 35417.2 | 24343.9 | 41002.7 | 0.6873469 |
| 40756.7 | 26007.2 | 48137.9 | 0.6381086 |
| 44485 | 29719.3 | 52816.3 | 0.6680747 |
| 47506 | 28623.8 | 55137.3 | 0.6025302 |
| 2579.4 | 1574.8 | 3042.7 | 0.6105296 |
| 3553.4 | 2471.8 | 4213.8 | 0.6956155 |
| 4543.3 | 2916.2 | 5399.4 | 0.6418682 |
| 5196.6 | 4105.2 | 6652 | 0.7899781 |


| 5370 | 3743.6 | 6347.3 | 0.6971322 |
| :---: | :---: | :---: | :--- |
| 4809.6 | 3830.5 | 5818.4 | 0.796428 |
| 5205.8 | 4169.6 | 6479 | 0.8009529 |
| 7409.5 | 4849.4 | 8710.2 | 0.6544841 |
| 6712.5 | 5208.9 | 8154 | 0.776 |
| 1268.5 | 830 | 1762.8 | 0.6543161 |
| 1473.8 | 1017.1 | 2034.9 | 0.6901208 |
| 1758.4 | 1310.8 | 2348.2 | 0.7454504 |
| 2100.9 | 1168.1 | 2713.5 | 0.5559998 |
| 1250.1 | 751.1 | 1702 | 0.6008319 |
| 1424 | 702.8 | 1904.2 | 0.4935393 |
| 1328.4 | 619.1 | 2379.5 | 0.4660493 |
| 1874.4 | 586.9 | 3172.1 | 0.3131135 |
| 1980.7 | 319.9 | 3067.1 | 0.1615086 |
| 3909.4 | 418 | 5002.4 | 0.1069218 |
| 3937 | 323.6 | 5083.2 | 0.0821946 |
| 4182.9 | 595.3 | 5381.6 | 0.1423175 |
| 6951.2 | 515.8 | 8876 | 0.074203 |
| 7102.2 | 709.4 | 12163 | 0.0998845 |
| 7004.3 | 977.5 | 10912 | 0.1395571 |
| 1195 |  | 1259.4 |  |
| 1635.3 |  | 1719 |  |
| 2154 |  | 2240.2 |  |
| 2241.1 |  | 2330.1 |  |
| 2551.9 |  | 2668.6 |  |
| 2241 |  | 2404.1 |  |
| 2206.3 | 0.2 | 2407.5 | 0.0000906 |
| 2113.8 | 0.2 | 2317.3 | 0.0000946 |
| 3096.8 |  | 3317.4 |  |
| 3302.1 |  | 3521.7 |  |
| 3722.8 |  | 3960.2 |  |
| 3035.4 |  | 3247 |  |
| 1333.2 | 1548.4 | 1953.7 | 1.161416 |
| 1685.7 | 1834.6 | 2362.4 | 1.088331 |
| 1714.4 | 1771.8 | 2492 | 1.033481 |
| 2225.6 | 1969.8 | 3044.2 | 0.8850647 |
| 1804.5 | 1843.7 | 2643.6 | 1.021723 |
| 2454.6 | 2183.1 | 3308.1 | 0.8893914 |
| 1985.4 | 1820.2 | 3012.7 | 0.9167926 |
| 207.1 | 1968.6 | 3224.2 | 0.8910334 |
| 1832.5 | 1888.3 | 2855 | 1.03045 |
| 1942.8 | 1625.9 | 2957.1 | 0.8368849 |
| 2645.6 | 1818.3 | 3891.5 | 0.6872921 |
| 3298.7 | 2079.7 | 4530 | 0.6304605 |
| 4414.7 | 2251.9 | 5583.3 | 0.5100912 |
| 4920.3 | 2583.4 | 6417 | 0.5250493 |
| 4847.6 | 2947.5 | 6799.8 | 0.6080328 |
| 1132 | 0.1 | 1181.1 | 0.0000883 |
| 1500.4 | 0.1 | 1579 | 0.0000666 |
| 1881.3 | 0 | 1966.9 | 0 |
| 1799.3 |  | 1898.1 |  |
| 1761 |  | 1870.9 |  |


| 1666.3 |  | 1836.3 |  |
| :---: | :---: | :---: | :--- |
| 1539.2 |  | 1756.4 |  |
| 738.2 | 843.5 | 1136.1 | 1.142644 |
| 1875.3 | 1046.7 | 2292.9 | 0.5581506 |
| 1822.1 | 1472.5 | 2267.4 | 0.8081335 |
| 4560.4 | 4039.3 | 6453.9 | 0.8857337 |
| 6490.1 | 4603.6 | 8845.2 | 0.7093265 |
| 8946 | 5937.6 | 11040.1 | 0.6637157 |
| 10683.3 | 7322.7 | 13282.2 | 0.6854343 |
| 12937.8 | 9078.1 | 15187.2 | 0.7016726 |
| 15689.1 | 11114.3 | 18515.3 | 0.708409 |
| 17804 | 14720.5 | 22674.6 | 0.8268086 |
| 17132.8 | 17115.3 | 22695.6 | 0.9989786 |
| 24968 | 18985.4 | 30920.9 | 0.7603893 |
| 32451.6 | 19968.7 | 38138.3 | 0.6153379 |
| 32134.8 | 18968.5 | 36885.5 | 0.590279 |
| 32701 | 20357.8 | 38265.9 | 0.6225437 |
| 39970.2 | 20504.2 | 45747.3 | 0.5129871 |
| 39192.5 | 19848.8 | 46136.5 | 0.5064439 |
| 3476.3 | 2565.1 | 4203 | 0.7378823 |
| 4066.9 | 3104.5 | 4820.3 | 0.7633579 |
| 5243.9 | 3938.9 | 6127.3 | 0.7511394 |
| 4604.6 | 3648.7 | 5578.7 | 0.7924032 |
| 4730.1 | 3680.3 | 5732.6 | 0.7780597 |
| 4453.6 | 3531.2 | 5430.3 | 0.7928866 |
| 1618.2 | 980.8 | 2244.1 | 0.6061056 |
| 1644.3 | 862.2 | 2163.3 | 0.5243568 |
| 1770.4 | 1180.8 | 2369.8 | 0.6669679 |
| 1144.3 | 741.1 | 1546 | 0.6476448 |
| 1400 | 363.8 | 1712 | 0.2598571 |
| 1639.5 | 415.2 | 1977.6 | 0.2532479 |
| 910 | 290.3 | 1257.2 | 0.319011 |
| 546.7 | 232.9 | 902.8 | 0.4260106 |
| 544.5 | 211.1 | 918.9 | 0.3876951 |
| 1007.6 | 159.3 | 1417.6 | 0.1580985 |
| 1096.4 | 155.8 | 1521.2 | 0.1421014 |
| 1005 | 149.4 | 1466.7 | 0.1486567 |
| 867.8 | 139.1 | 1381.4 | 0.1602904 |
| 980.4 | 156.6 | 2099 | 0.1597307 |
| 4360.8 | 3190.7 | 5236.5 | 0.7316777 |
| 5630.1 | 4640.7 | 6899.1 | 0.824266 |
| 7371.8 | 5806.2 | 8977 | 0.7876232 |
| 8067.6 | 6394.5 | 9586.2 | 0.7926149 |
| 7222.6 | 5344.8 | 8764.8 | 0.7404258 |
| 6412 | 4670.2 | 7605.7 | 0.7283531 |
| 3475.4 | 2839 | 4168.8 | 0.8168844 |
| 3898.3 | 3032.3 | 4860.1 | 0.7778519 |
| 9633.7 | 7263.4 | 12092.9 | 0.7539575 |
| 8124 | 6377.5 | 10079.9 | 0.7850197 |
| 7239.3 | 5940.6 | 9113.1 | 0.8206043 |
| 9707.1 | 7141.5 | 12164.3 | 0.7356986 |
| 9512.2 | 7300 | 12556.2 | 0.7674355 |
|  |  |  |  |


| 15173.8 | 12998 | 19795.6 | 0.8566081 |
| :---: | :---: | :---: | :--- |
| 19888.9 | 14564.7 | 25015.7 | 0.732303 |
| 23036.2 | 16189.9 | 28886.5 | 0.7028026 |
| 25445.7 | 17201.1 | 31080.8 | 0.6759924 |
| 25826.7 | 20232.2 | 32070.1 | 0.7833831 |
| 29150.3 | 25004.6 | 36016.5 | 0.8577819 |
| 34299 | 27586 | 41425.5 | 0.80428 |
| 556 | 601.8 | 810.7 | 1.082374 |
| 891.1 | 918 | 1253.6 | 1.030187 |
| 870.1 | 854 | 1248.1 | 0.9814964 |
| 843.8 | 1012.7 | 1229.3 | 1.200166 |
| 1518.5 | 1503.6 | 1876.6 | 0.9901876 |
| 1832.1 | 1364.7 | 2124.2 | 0.7448829 |
| 2126.5 | 1437.5 | 2422.3 | 0.6759934 |
| 2104.9 | 1622.2 | 2467.9 | 0.770678 |
| 2340.9 | 1514.3 | 2721.4 | 0.646888 |
| 2317.2 | 1345.8 | 2731.3 | 0.5807872 |
| 2582.8 | 1516.2 | 3049.5 | 0.5870373 |
| 2533 | 1432.5 | 3026.4 | 0.5655349 |
| 2744.8 | 1992.1 | 3484.5 | 0.7257723 |
| 2395.6 | 3245.4 | 4678.4 | 1.354734 |
| 556 | 601.8 | 810.7 | 1.082374 |
| 891.1 | 918 | 1253.6 | 1.030187 |
| 870.1 | 854 | 1248.1 | 0.9814964 |
| 843.8 | 1012.7 | 1229.3 | 1.200166 |
| 1518.5 | 1503.6 | 1876.6 | 0.9901876 |
| 1832.1 | 1364.7 | 2124.2 | 0.7448829 |
| 2126.5 | 1437.5 | 2422.3 | 0.6759934 |
| 2104.9 | 1622.2 | 2467.9 | 0.770678 |
| 2340.9 | 1514.3 | 2721.4 | 0.646888 |
| 2317.2 | 1345.8 | 2731.3 | 0.5807872 |
| 2582.8 | 1516.2 | 3049.5 | 0.5870373 |
| 2533 | 1432.5 | 3026.4 | 0.5655349 |
| 2744.8 | 1992.1 | 3484.5 | 0.7257723 |
| 2395.6 | 3245.4 | 4678.4 | 1.354734 |
| 318.5 | 348.9 | 744.9 | 1.095447 |
| 311.4 | 299 | 964 | 0.9601799 |
| 764.8 | 334.5 | 1147.5 | 0.4373693 |
| 730.4 | 263.5 | 1102.8 | 0.3607612 |
| 1146.5 | 212.6 | 1543.9 | 0.1854339 |
| 1061.5 | 146.3 | 1449.2 | 0.1378388 |
| 985.5 | 157.8 | 1356.1 | 0.1601318 |
| 617.1 | 179.3 | 1009.9 | 0.2905526 |
| 1018.2 | 136.1 | 1442.8 | 0.1336673 |
| 849.9 | 114.5 | 1280.9 | 0.1347217 |
| 1794.7 | 84.1 | 2263.6 | 0.0468602 |
| 2019.6 | 38.3 | 2779.4 | 0.0189642 |
| 2786.3 | 207.8 | 4009.8 | 0.0745792 |
| 1743 | 152.9 | 3656.5 | 0.0877223 |
| 4560.4 | 4039.3 | 6453.9 | 0.8857337 |
| 6490.1 | 4603.6 | 8845.2 | 0.7093265 |
| 8946 | 5937.6 | 11040.1 | 0.6637157 |
|  |  |  |  |


| 10683.3 | 7322.7 | 13282.2 | 0.6854343 |
| :---: | :---: | :---: | :--- |
| 12937.8 | 9078.1 | 15187.2 | 0.7016726 |
| 15689.1 | 11114.3 | 18515.3 | 0.708409 |
| 17804 | 14720.5 | 22674.6 | 0.8268086 |
| 17132.8 | 17115.3 | 22695.6 | 0.9989786 |
| 24968 | 18985.4 | 30920.9 | 0.7603893 |
| 32451.6 | 19968.7 | 38138.3 | 0.6153379 |
| 32134.8 | 18968.5 | 36885.5 | 0.590279 |
| 32701 | 20357.8 | 38265.9 | 0.6225437 |
| 39970.1 | 20504.2 | 45747.2 | 0.5129884 |
| 39192.5 | 19848.8 | 46136.5 | 0.5064439 |
| 2693.8 | 1590.7 | 2891.8 | 0.5905041 |
| 5636.6 | 3183.3 | 6178.6 | 0.5647553 |
| 6025.2 | 4092.9 | 6486.1 | 0.6792969 |
| 4566.3 | 3762.8 | 4948.3 | 0.824037 |
| 1589.8 | 1364.9 | 1839.1 | 0.8585356 |
| 2528.8 | 2172.7 | 2841.2 | 0.8591822 |
| 3673 | 3193.4 | 4141.3 | 0.8694255 |
| 6240.7 | 5253.4 | 7094.1 | 0.8417966 |
| 7723.4 | 7220.9 | 9201.4 | 0.934938 |
| 9946.7 | 9054.5 | 11536.8 | 0.9103019 |
| 10523.9 | 9419.2 | 12053.2 | 0.8950294 |
| 1332.4 | 1075.3 | 1721.1 | 0.80704 |
| 1490.8 | 1267.2 | 1860.2 | 0.8500134 |
| 1307.3 | 1206.3 | 1743.1 | 0.9227415 |
| 2125.3 | 1427.7 | 2471.9 | 0.671764 |
| 2570.5 | 1168.3 | 2971.2 | 0.454503 |
| 2224.4 | 1009.9 | 2745.7 | 0.4540101 |
| 2241.6 | 450.1 | 2743.3 | 0.2007941 |
| 2439.4 | 370.5 | 2954.5 | 0.1518816 |
| 2693.3 | 427.1 | 3349.1 | 0.1585787 |
| 3358.1 | 443.2 | 4082.9 | 0.1319794 |
| 3048.9 | 430.4 | 4366.3 | 0.1411657 |
| 8849.6 | 600.6 | 10851.1 | 0.0678675 |
| 2801.7 | 624 | 6242.1 | 0.2227219 |
| 5255.2 | 3724.6 | 5884.8 | 0.7087456 |
| 7222.9 | 5461.9 | 8189.5 | 0.7561921 |
| 8286.6 | 5675.6 | 9071.4 | 0.684913 |
| 8976.1 | 5577.6 | 9856.4 | 0.6213835 |
| 14289.2 | 10910.5 | 16298.9 | 0.7635487 |
| 15161.9 | 10848.4 | 17205.8 | 0.715504 |
| 14408.9 | 9126.4 | 15977.4 | 0.6333863 |
| 12075.4 | 7422.2 | 13243.8 | 0.6146546 |
| 638 | 315.5 | 803.3 | 0.4945141 |
| 703.6 | 364 | 1110.1 | 0.5173394 |
| 2934.8 | 2479.4 | 3570.6 | 0.8448275 |
| 4040.4 | 2729.2 | 5132.7 | 0.6754777 |
| 4374.1 | 3297.1 | 5521.3 | 0.7537779 |
| 2504.9 | 3329.5 | 5532 | 1.329195 |
| 1250.1 | 751.1 | 1702 | 0.6008319 |
| 1424 | 702.8 | 1904.2 | 0.4935393 |
| 1328.4 | 619.1 | 2188.6 | 0.4660493 |


| 1874.4 | 586.9 | 3172.1 | 0.3131135 |
| :---: | :---: | :---: | :--- |
| 1980.8 | 319.9 | 3067.1 | 0.1615004 |
| 3909.4 | 418 | 5002.4 | 0.1069218 |
| 3937.1 | 323.6 | 5083.2 | 0.0821925 |
| 4183 | 595.4 | 5381.7 | 0.142338 |
| 6951.2 | 515.8 | 8876 | 0.074203 |
| 7102.2 | 709.3 | 12163 | 0.0998705 |
| 7004.3 | 977.5 | 10912 | 0.1395571 |
| 9606.4 | 3962.5 | 10269.6 | 0.4124854 |
| 12278.9 | 5148.1 | 13450.6 | 0.4192639 |
| 12400.9 | 5585.3 | 13808.1 | 0.4503947 |
| 12698.4 | 6027.5 | 14398.6 | 0.4746661 |
| 13824.8 | 6569.4 | 15906.1 | 0.4751895 |


[^0]:    ${ }^{1}$ Divine Islamic law that encompasses all aspects of human life as revealed in the Qur'an and the Sunnah. Islamic religious law governs not only religious rituals, but aspects of day-to-day life in Islam. Shari'ah, literally translated, means "the way."
    ${ }^{2}$ A concept in Islamic banking that refers to charged interest. It is forbidden under Shari'ah, Islamic religious law, because it is thought to be exploitive. Depending on the interpretation, riba may only refer to excessive interest; however to others, the whole concept of interest is riba, and thus is unlawful.

[^1]:    ${ }^{3}$ The general shariah principle is that the commodity to be sold should exist. The seller, moreover, is required to have acquired $t$ the ownership and be in possession of that commodity.
    ${ }^{4}$ IDB was established in 1395H (1975) in pursuance of the Declaration of Intent issued at the Conference of Finance Ministers of Muslim Countries held in Jeddah in Dhul Qadah 1393H (December 1973).

[^2]:    ${ }^{5}$ It is sales at a specified margin. The term is now however is used to refer to a sale agreement whereby the seller purchases the goods desired by the buyer and sells them at an agreed marked-up - price, the payment being settled within the agreed time frame, either in instalments or lump sum. The seller bears the risk for the goods until they have been delivered to buyer.
    ${ }^{6}$ Leasing
    ${ }^{7}$ A contract in which manufacturer (contractor) agrees to produce (build) and deliver certain good or (premise) at a given price on given date in future. This is an exception to the general Shariah ruling which

