**BANK LOAN REPORT QUERY DOCUMENT**

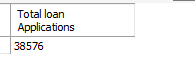
1. **BANK LOAN REPORT | SUMMARY**

**KPI’s:**

**Calculate Total Funded Loan Applications**

**(Total Loan Applications)**

SELECT count(id) AS 'Total loan Applications' FROM bank\_data;



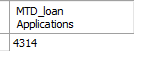
**Calculate last Two Month Data Aids in Month-on-Month Comparision**

**MTD Loan Applications (MTD = Month To Date)**

SELECT count(id) AS 'MTD\_loan Applications'

FROM bank\_data

WHERE month(issue\_date) = 12;

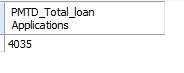


**PMTD Loan Applications (PMTD = Previous Month To Date)**

SELECT count(id) AS 'PMTD\_Total\_loan Applications'

FROM bank\_data

WHERE month(issue\_date) = 11;

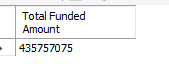


**Calculate Total Amount Of Loan Bank Distribuited ?**

**Total Funded Amount**

SELECT sum(loan\_amount) AS 'Total Funded Amount'

FROM bank\_data;



**MTD Total Funded Amount**

SELECT sum(loan\_amount) AS 'MTD Total Funded Amount'

FROM bank\_data

WHERE month(issue\_date) = 12;



**PMTD Total Funded Amount**

SELECT sum(loan\_amount) AS 'PMTD Total Funded Amount'

FROM bank\_data

WHERE month(issue\_date) = 11;

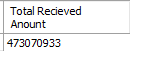


**Calculate Total Amount Of Loan Repayments Received By From Borrower’s**

**Total Amount Received**

SELECT sum(total\_payment) AS 'Total Recieved Anount'

FROM bank\_data;

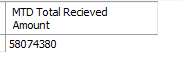


**MTD Total Amount Received**

SELECT sum(total\_payment) AS 'MTD Total Recieved Amount'

FROM bank\_data

WHERE month(issue\_date) = 12;

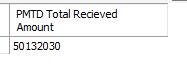


**PMTD Total Amount Received**

SELECT sum(total\_payment) AS 'PMTD Total Recieved Amount'

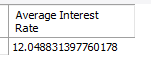
FROM bank\_data

WHERE month(issue\_date) = 11;



**Average Interest Rate Applied To The Loans**

SELECT avg(int\_rate) \* 100 AS 'Average Interest Rate';

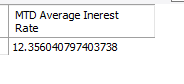


**MTD Average Interest**

SELECT AVG(int\_rate) \* 100 AS 'MTD Average Inerest Rate'

FROM bank\_data

WHERE month(issue\_date) = 12;

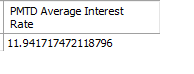


**PMTD Average Interest**

SELECT AVG(int\_rate) \* 100 AS 'PMTD Average Interest Rate'

FROM bank\_data

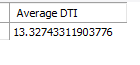
WHERE month(issue\_date) = 11;



**Calculate Average Debt-to-Income Ratio of the Borrower’s**

SELECT avg(dti) AS 'Average DTI'

FROM bank\_data;

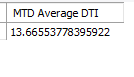


**MTD Average DTI**

SELECT AVG(dti) \* 100 AS 'MTD Average DTI'

FROM bank\_data

WHERE month(issue\_date) = 12;



**PMTD Average DTI**

SELECT AVG(int\_rate) \* 100 AS 'PMTD Average DTI'

FROM bank\_data

WHERE month(issue\_date) = 11;



**GOOD LOAN ISSUED**

**The loans which are repaid on time.by customer’s with good repayment history = Good Loans**

**The loans which are not repaid on time.by customer’s with bad repayment history = Bad Loans**

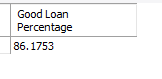
**How many loans were repaid on time.by customer’s with good repayment history ?**

**Percentage of Good loans**

SELECT

(COUNT(CASE WHEN loan\_status = "Fully Paid" or loan\_status = "Current" THEN id END) \* 100) / COUNT(ID) AS "Good Loan Percentage"

FROM bank\_data

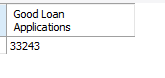
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**Total Number Of Good Loan Applications.**

SELECT COUNT(ID) AS "Good Loan Applications"

FROM bank\_data

WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";

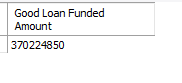
****

**Total Amount funded to Good Loans**

SELECT SUM(loan\_amount) AS "Good Loan Funded Amount"

FROM bank\_data

WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";

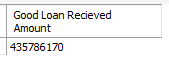
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**Total Amount of loan repayment received from good loans.**

SELECT SUM(total\_payment) AS "Good Loan Recieved Amount"

FROM bank\_data

WHERE loan\_status = "Fully Paid" OR loan\_status = "Current";

****

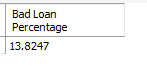
**BAD LOAN ISSUED**

**Bad Loan Percentage**

SELECT

(COUNT(CASE WHEN loan\_status = "Charged Off" THEN id END) \* 100) / COUNT(ID) AS "Bad Loan Percentage"

FROM bank\_data;

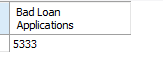
****

**Total Number Of Bad Loan Applications.**

SELECT COUNT(ID) AS "Bad Loan Applications"

FROM bank\_data

WHERE loan\_status = "Charged Off";

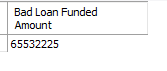
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**Total Amount funded to Bad Loans**

SELECT SUM(loan\_amount) AS "Bad Loan Funded Amount"

FROM bank\_data

WHERE loan\_status = "Charged Off";

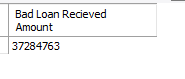
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**Total Amount of loan repayment received from bad loans.**

SELECT SUM(total\_payment) AS "Bad Loan Recieved Amount"

FROM bank\_data

WHERE loan\_status = "Charged Off";

****

**LOAN STATUS**

SELECT

loan\_status,

COUNT(id) AS 'Total Loan Applications',

SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount',

AVG(int\_rate)\*100 AS 'Average Interest Rate',

AVG(dti)\*100 AS 'Average DTI'

FROM bank\_data

GROUP BY loan\_status;

****

SELECT

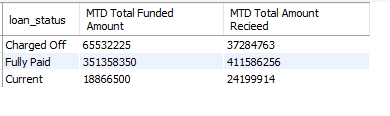
loan\_status,

SUM(loan\_amount) AS 'MTD Total Funded Amount',

SUM(total\_payment) AS 'MTD Total Amount Recieed'

from bank\_data

GROUP BY loan\_status;

****

**BANK LOAN REPORT | OVERVIEW**

**MONTH**

SELECT

MONTH(issue\_date) AS 'Month Number',

MONTHNAME(issue\_date) AS 'Month Name',

COUNT(id) AS 'Total Loan Applications',

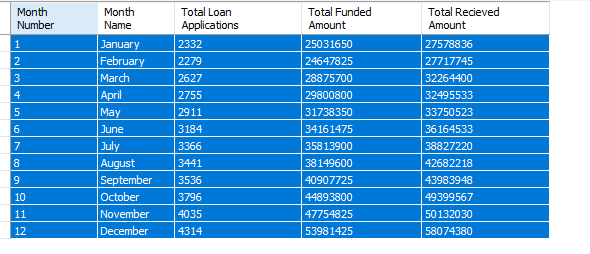
SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount'

FROM bank\_data

GROUP BY MONTH(issue\_date), MONTHNAME(issue\_date)

ORDER BY MONTH(issue\_date);



**STATE**

SELECT

address\_state,

COUNT(id) AS 'Total Loan Applications',

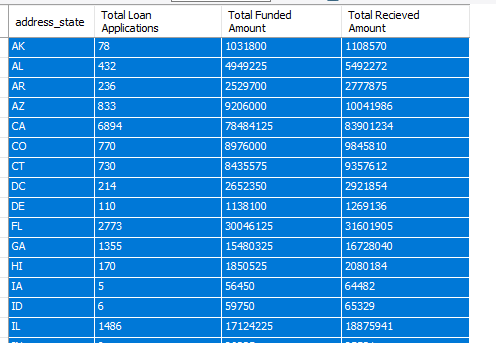
SUM(loan\_amount) AS 'Total Funded Amount',

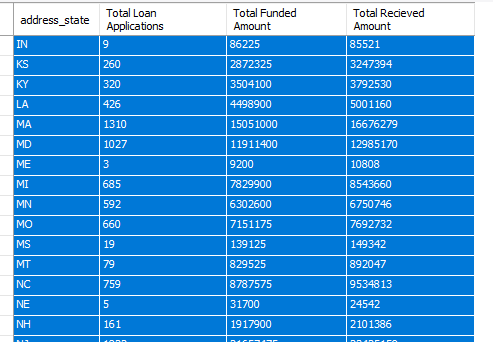
SUM(total\_payment) AS 'Total Recieved Amount'

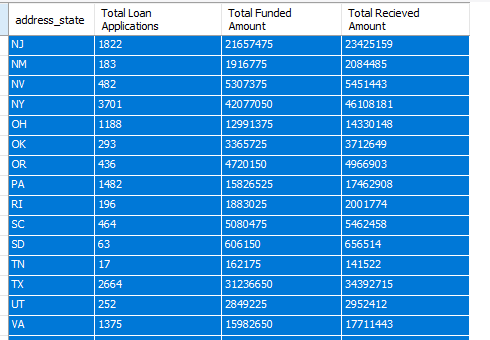
FROM bank\_data

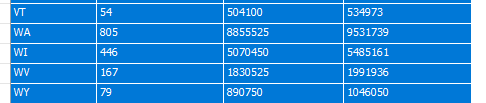
GROUP BY address\_state

order by address\_state;

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**TERM**

SELECT

term,

COUNT(id) AS 'Total Loan Applications',

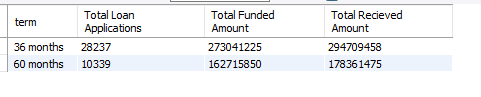
SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount'

FROM bank\_data

GROUP BY term

order by term;

****

**EMPLOYEE LENGTH**

SELECT

emp\_length,

COUNT(id) AS 'Total Loan Applications',

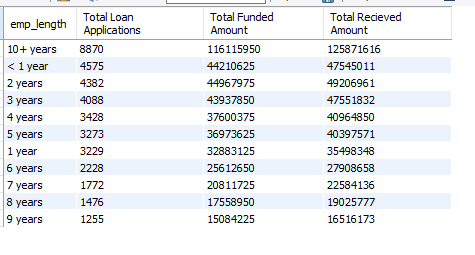
SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount'

FROM bank\_data

GROUP BY emp\_length

order by COUNT(id) DESC;

****

**PURPOSE**

SELECT

purpose,

COUNT(id) AS 'Total Loan Applications',

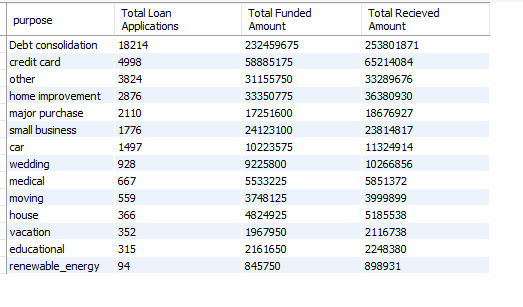
SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount'

FROM bank\_data

GROUP BY purpose

order by COUNT(id) DESC;

****

**HOME OWNERSHIP**

SELECT

home\_ownership,

COUNT(id) AS 'Total Loan Applications',

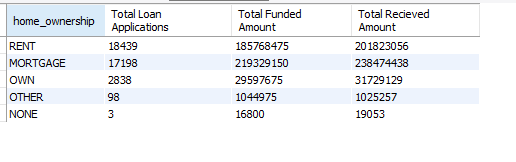
SUM(loan\_amount) AS 'Total Funded Amount',

SUM(total\_payment) AS 'Total Recieved Amount'

FROM bank\_data

GROUP BY home\_ownership

order by COUNT(id) DESC;

****

*Note: I have applied multiple Filters on all the dashboards. You can check the results for the filters as well by modifying the query and comparing the results.*

*For e.g*

*See the results when we hit the Grade A in the filters for dashboards.*

**Filters**

*SELECT*

*purpose,*

*COUNT(id) AS 'Total Loan Applications',*

*SUM(loan\_amount) AS 'Total Funded Amount',*

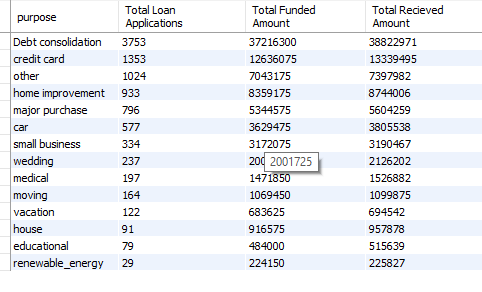
*SUM(total\_payment) AS 'Total Recieved Amount'*

*FROM bank\_data*

*WHERE grade = 'A'*

*GROUP BY purpose*

*order by COUNT(id) DESC;*

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