

SQLQuery1.sql - DESKTOP-57HBGAL\SQLEXPRESS.Bank Loan DB (DESKTOP-57HBGAL\lenovo (53)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query

Bank Loan DB Execute

Object Explorer

Connect ▾

DESKTOP-57HBGAL\SQLEXPRESS (SQL Server)

- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_loan_Data
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - Management
 - XEvent Profiler

100 %

Results Messages

Total_Loan_Application
1 38576

MTD_Total_Loan_Application
1 4314

PMTD_Total_Loan_Application
1 4035

Total_funded_amount
1 435757075

MTD_Total_funded_amount
1 53981425

Activate Windows

Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 1 rows

Ready

Ln 1 Col 1 INS

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2:02 PM 17-Jul-24

```
select * from Bank_loan_Data;

select COUNT(id) AS Total_Loan_Application from Bank_loan_Data

select COUNT(id) AS MTD_Total_Loan_Application from Bank_loan_Data
where MONTH(issue_date) = 12 and YEAR(issue_date) = 2021

select COUNT(id) AS PMTD_Total_Loan_Application from Bank_loan_Data
where MONTH(issue_date) = 11 and YEAR(issue_date) = 2021

select SUM(loan_amount) AS Total_funded_amount from Bank_loan_Data

select SUM(loan_amount) AS MTD_Total_funded_amount from Bank_loan_Data
where MONTH(issue_date) = 12 and YEAR(issue_date) = 2021
```

SQLQuery1.sql - DESKTOP-57HBGAL\SQLEXPRESS.Bank Loan DB (DESKTOP-57HBGAL\lenovo (53)) - Microsoft SQL Server Management Studio

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 - Database Snapshots
 - company_database
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- Bank Loan DB
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 - Tables
 - System Tables
 - FileTables
 - External Tables
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 - dbo.Bank_loan_Data
 - Views
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SQLQuery1.sql - D...HBGAL\lenovo (53) | X

```
select SUM(loan_amount) AS PMTD_Total_funded_amount from Bank_loan_Data
where MONTH(issue_date) = 11 and YEAR(issue_date) =2021

select SUM(total_payment) AS Total_Amount_Received from Bank_loan_Data

select SUM(total_payment) AS MTD_Total_Amount_Received from Bank_loan_Data
where MONTH(issue_date) = 12 and YEAR(issue_date) =2021

select SUM(total_payment) AS PMTD_Total_Amount_Received from Bank_loan_Data
where MONTH(issue_date) = 11 and YEAR(issue_date) =2021

Select Round(AVG(int_rate), 4) * 100 As AVG_Interst_Rate from Bank_loan_Data
```

100 %

Results Messages

1	PMTD_Total_funded_amount 47754825
1	Total_Amount_Received 473070933
1	MTD_Total_Amount_Received 58074380
1	PMTD_Total_Amount_Received 50132030
1	AVG_Interst_Rate 12.05

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... DESKTOP-57HBGAL\lenovo... Bank Loan DB | 00:00:00 | 1 rows

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2:04 PM 17-Jul-24



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New Query

Bank Loan DB Execute

Object Explorer

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- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_Loan_Data
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
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 - Server Objects
 - Replication
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SQLQuery1.sql - D...HBGAL\lenovo (53))

```
Select Round(AVG(int_rate), 4) * 100 As MTD_AVG_Interst_Rate from Bank_loan_Data
where MONTH(issue_date) =12 and YEAR(issue_date) = 2021

Select Round(AVG(int_rate), 4) * 100 As PMTD_AVG_Interst_Rate from Bank_loan_Data
where MONTH(issue_date) =11 and YEAR(issue_date) = 2021

select Round(AVG(dt), 4) * 100 AS AVG_DTI from Bank_loan_Data

select Round(AVG(dt), 4) * 100 AS MTD_AVG_DTI from Bank_loan_Data
where MONTH(issue_date) = 12 and YEAR(issue_date) =2021

select Round(AVG(dt), 4) * 100 AS PMTD_AVG_DTI from Bank_loan_Data
where MONTH(issue_date) = 11 and YEAR(issue_date) =2021
```

100 %

Results Messages

1	MTD_AVG_Interst_Rate 12.36
1	PMTD_AVG_Interst_Rate 11.94
1	Avg_DTI 13.33
1	MTD_AVG_DTI 13.67
1	PMTD_AVG_DTI 13.3

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 1 rows

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2:05 PM 17-Jul-24

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SQLQuery1.sql - D:\HBGAL\lenovo (53)*

```
select loan_status from Bank_loan_Data

select
    (COUNT(case when loan_status = 'fully paid' OR loan_status = 'CURRENT' THEN id END)* 100)/
    COUNT(id) AS Good_loan_percentage
From Bank_loan_Data

select COUNT(id) AS Good_Loan_Application from Bank_loan_Data
where loan_status = 'fully paid' OR loan_status = 'current'

select sum(loan_amount) AS Good_Loan_Funded_amount from Bank_loan_Data
where loan_status = 'fully paid' OR loan_status = 'current'
```

Results Messages

	loan_status
1	Fully Paid
2	Fully Paid
3	Fully Paid
4	Fully Paid
5	Fully Paid

	Good_loan_percentage
1	86

	Good_Loan_Application
1	33243

	Good_Loan_Funded_amount
1	370224850

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 38,579 rows

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Bank Loan DB Execute

Object Explorer

Connect

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- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_Loan_Data
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - Management
 - XEvent Profiler

SQLQuery1.sql - D...\HBGAL\lenovo (53)*

```
select sum(total_payment) AS Good_Loan_Received_amount from Bank_loan_Data
where loan_status = 'fully paid' OR loan_status ='current'

select
(COUNT(case when loan_status = 'charged off' THEN id END)* 100.0)/
COUNT(id) AS Bad_loan_Percentage
From Bank_loan_Data

select COUNT(id) AS Bad_Loan_Application from Bank_loan_Data
where loan_status ='charged off'

select sum(loan_amount) AS Bad_Loan_funded_amount from Bank_loan_Data
where loan_status ='charged off'
```

Results Messages

	Good_Loan_Received_amount
1	435786170

	Bad_Loan_Percentage
1	13.824657818332

	Bad_Loan_Application
1	5333

	Bad_Loan_funded_amount
1	6553225

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 4 rows

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2:09 PM 17-Jul-24

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New Query

Bank Loan DB

Object Explorer

Connect ▾

DESKTOP-57HBGAL\SQLEXPRESS (SQL Server)

- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_loan_Data
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - Management
 - XEvent Profiler

SQLQuery1.sql - D...HBGAL\lenovo (53)*

```
select sum(total_payment) AS Bad_Loan_Recieved_amount from Bank_loan_Data
where loan_status = 'charged off'

select
    loan_status,
    COUNT(id) AS Total_Loan_Application,
    SUM(total_payment) AS Total_Amount_Received,
    SUM(Loan_amount) AS Total_Funded_Amount,
    AVG(int_rate * 100) AS interst_Rate,
    AVG(dt1 * 100) AS DTI
FROM
    Bank_loan_Data
GROUP BY
    loan_status
```

Results Messages

	Bad_Loan_Recieved_amount
1	37284763

	loan_status	Total_Loan_Application	Total_Amount_Received	Total_Funded_Amount	interst_Rate	DTI
1	Fully Paid	32145	411586256	351358350	11.6410707918092	13.1673507557434
2	Current	1098	24199914	18866500	15.0993260800947	14.7243442736843
3	Charged Off	5333	37284763	65532225	13.8785749318289	14.0047328005517

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... DESKTOP-57HBGAL\lenovo... Bank Loan DB 00:00:00 | 1 rows

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2:11 PM 17-Jul-24

SQLQuery1.sql - DESKTOP-57HBGAL\SQLEXPRESS.Bank Loan DB (DESKTOP-57HBGAL\lenovo (53))* - Microsoft SQL Server Management Studio

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New Query

Bank Loan DB

Object Explorer

Connect

DESKTOP-57HBGAL\SQLEXPRESS (SQL Server)

- Databases
- System Databases
- Database Snapshots
- company_database
- Pizza DB
- Bank Loan DB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_loan_Data
- Views
- External Resources
- Synonyms
- Programmability
- Query Store
- Service Broker
- Storage
- Security

Security

Server Objects

Replication

Management

XEvent Profiler

SQLQuery1.sql - D...\lenovo (53)*

```
SELECT
    loan_status,
    SUM(total_payment) AS MTD_total_amount_recieved,
    SUM(loan_amount) AS PMTD_total_funded_amount
FROM Bank_loan_Data
WHERE MONTH(issue_date) = 12
GROUP BY loan_status

select
    MONTH(issue_date) as Month_Number,
    DATENAME(month, issue_date) as Month_Name,
    COUNT(id) as Total_loan_Application,
    SUM(loan_amount) as Total_funded_Amount,
    SUM(total_payment) as Total_Received_Amount
from Bank_loan_Data
Group BY MONTH(issue_date), DATENAME(month, issue_date)
order by MONTH(issue_date)
```

100 %

Results Messages

loan_status	MTD_total_amount_recieved	PMTD_total_funded_amount
1 Fully Paid	47815851	41302025
2 Current	4934318	3946625
3 Charged Off	5324211	8732775

Month_Number	Month_Name	Total_loan_Application	Total_funded_Amount	Total_Received_Amount
1	January	2332	25031650	27578836
2	February	2279	24647825	27117745
3	March	2627	28875700	32264400
4	April	2755	29800800	32495533
5	May	2911	31738350	33750523
6	June	3184	34161475	36164533
7	July	2266	25812000	28827720

Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 15 rows

Ready

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2:12 PM 17-Jul-24

SQLQuery1.sql - DESKTOP-57HBGAL\SQLEXPRESS.Bank Loan DB (DESKTOP-57HBGAL\lenovo (53)) - Microsoft SQL Server Management Studio

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Quick Launch (Ctrl+Q)

Bank Loan DB

New Query

Object Explorer

Connect

DESKTOP-57HBGAL\SQLEXPRESS (SQL Server)

- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_Loan_Data
 - Views
- Security
- Server Objects
- Replication
- Management
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SQLQuery1.sql - D:\HBGAL\lenovo (53)*

```
select
    address_state,
    COUNT(id) as Total_loan_Application,
    SUM(loan_amount) as Total_funded_Amount,
    SUM(total_payment) as Total_Recieved_Amount
from Bank_loan_Data
Group BY address_state
order by address_state

select
    term,
    COUNT(id) as Total_loan_Application,
    SUM(loan_amount) as Total_funded_Amount,
    SUM(total_payment) as Total_Recieved_Amount
from Bank_loan_Data
Group BY term
order by term
```

Results Messages

address_state	Total_loan_Application	Total_funded_Amount	Total_Recieved_Amount
1 AK	78	1031800	1108570
2 AL	432	4949225	5492272
3 AR	236	2529700	2777875
4 AZ	833	9206000	10041986
5 CA	6894	78484125	83901234
6 CO	770	8976000	9845810

term	Total_loan_Application	Total_funded_Amount	Total_Recieved_Amount
1 36 months	28237	273041225	294709458
2 60 months	10339	162715850	178361475

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Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 52 rows

Ready

Ln 119 Col 14 Ch 14 INS

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SQLQuery1.sql - DESKTOP-57HBGAL\SQLEXPRESS.Bank Loan DB (DESKTOP-57HBGAL\lenovo (53)) - Microsoft SQL Server Management Studio

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Bank Loan DB Execute

Object Explorer

Connect Connect +

DESKTOP-57HBGAL\SQLEXPRESS (SQL Server)

- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_loan_Data
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
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100 %

Results Messages

```
SELECT emp_length,
       COUNT(id) AS Total_loan_Application,
       SUM(loan_amount) AS Total_funded_Amount,
       SUM(total_payment) AS Total_Received_Amount
  FROM Bank_loan_Data
 GROUP BY emp_length
 ORDER BY COUNT(id) DESC

SELECT purpose,
       COUNT(id) AS Total_loan_Application,
       SUM(loan_amount) AS Total_funded_Amount,
       SUM(total_payment) AS Total_Received_Amount
  FROM Bank_loan_Data
 GROUP BY purpose
 ORDER BY COUNT(id) DESC
```

emp_length	Total_loan_Application	Total_funded_Amount	Total_Received_Amount
10+ years	8870	116115950	125871616
< 1 year	4575	44210625	47545011
2 years	4382	44967975	49206961
3 years	4088	43937850	47551832
4 years	3428	37600375	40964850

purpose	Total_loan_Application	Total_funded_Amount	Total_Received_Amount
Debt consolidation	18214	232459675	253801871
credit card	4998	58885175	65214084
other	3824	31155750	33289676
home improvement	2876	33350775	36380930
major purchase	2110	17251600	18576927

Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 11 rows

Ready Ln 137 Col 24 Ch 24 INS

2:15 PM 17-Jul-24

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New Query Execute

Bank Loan DB

Object Explorer

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- Databases
 - System Databases
 - Database Snapshots
 - company_database
 - Pizza DB
 - Bank Loan DB
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Bank_loan_Data
 - Views
- External Resources
- Synonyms
- Programmability
- Query Store
- Service Broker
- Storage
- Security
- Server Objects
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SQLQuery1.sql - D...HBGAL\lenovo (53)*

```
select
    home_ownership,
    COUNT(id) as Total_loan_Application,
    SUM(loan_amount) as Total_funded_Amount,
    SUM(total_payment) as Total_Recieved_Amount
from Bank_loan_Data
Group BY home_ownership
order by COUNT(id) desc
```

Results Messages

home_ownership	Total_loan_Application	Total_funded_Amount	Total_Recieved_Amount
RENT	18439	185768475	201823056
MORTGAGE	17198	219329150	238474438
OWN	2838	29597675	31729129
OTHER	98	1044975	1025257
NONE	3	16800	19053

Activate Windows

Query executed successfully.

DESKTOP-57HBGAL\SQLEXPRESS ... | DESKTOP-57HBGAL\lenovo... | Bank Loan DB | 00:00:00 | 5 rows

Ready Ln 154 Col 1 Ch 1 INS

Type here to search

2:16 PM 17-Jul-24

BANK LOAN REPORT | SUMMARY

SUMMARY

OVERVIEW

DETAILS

Total Loan Application

38.6k

MTD MoM

4.3k 6.9%

Total Funded Amount

\$435.8M

MTD MoM

\$54.0M 13.0%

Total Amount Received

\$473.1M

MTD MoM

\$58.1M 15.8%

Avg Interest Rate

12.05%

MTD MoM

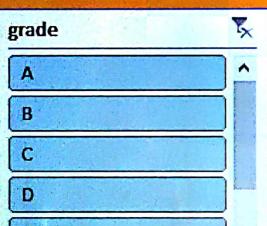
12.36% 3.5%

Avg DTI

13.33%

MTD MoM

13.67% 2.7%



Good Loan Total Application

33.2k

Good Loan Funded Amount

\$65.5M

Good Loan Amount Received

\$435.8

Bad Loan Issued

Bad Loan Total Application

5.3k

Bad Loan Funded Amount

\$65.5M

Bad Loan Amount Received

\$37.3M

Loan Application	Funded Amount	Amount Received	Interest Rate	DTI
Fully Paid	\$2.1k	\$351.4M	11.64 %	13.1 7%
Charged Off	5.3k	\$65.5 M	13.88 %	14.0 0%
Current	1.1k	\$18.9 M	15.10 %	14.7 2%



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