Mahendra Kumar Ponnapalli

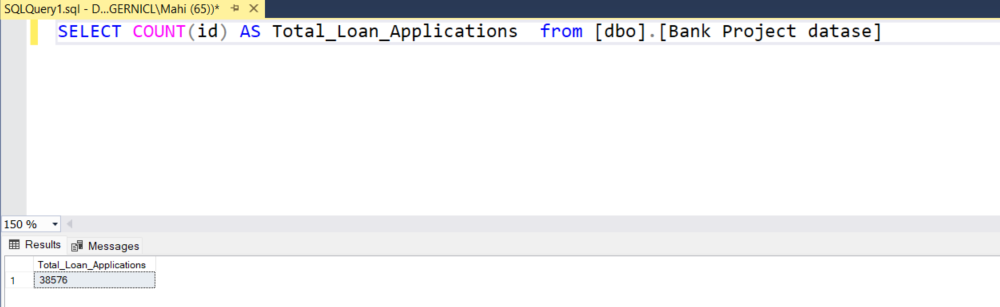
[Mahiponnapalli19@gmail.com](mailto:Mahiponnapalli19@gmail.com)

**Bank Financial Loan Analysis Project**

**Key Performance Indicators**

1 ) Total Loan Applications

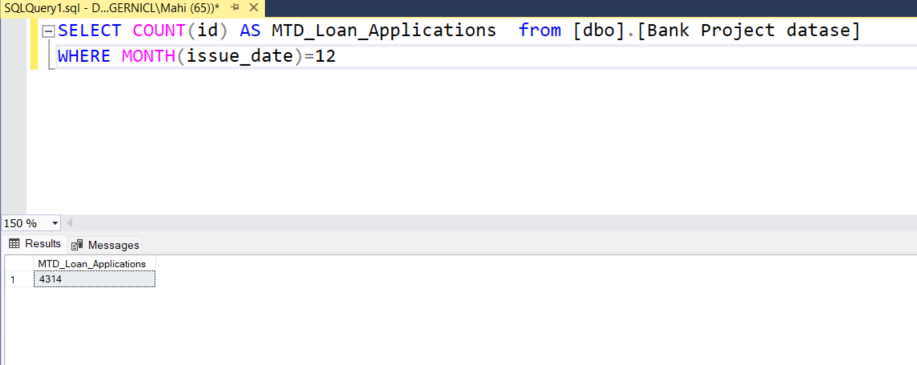
SELECT COUNT(id) AS Total\_Loan\_Applications from [dbo].[Bank Project datase]

****

MTD Loan Applications

SELECT COUNT(id) AS MTD\_Loan\_Applications from [dbo].[Bank Project datase]

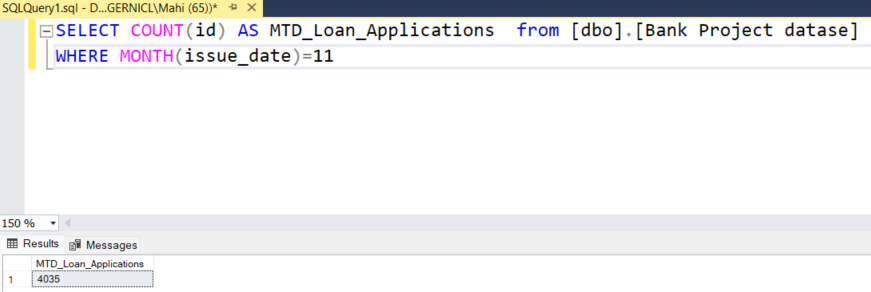
WHERE MONTH(issue\_date)=12



PMTD Loan Applications :

SELECT COUNT(id) AS MTD\_Loan\_Applications from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=11



2) Total Funded amount:

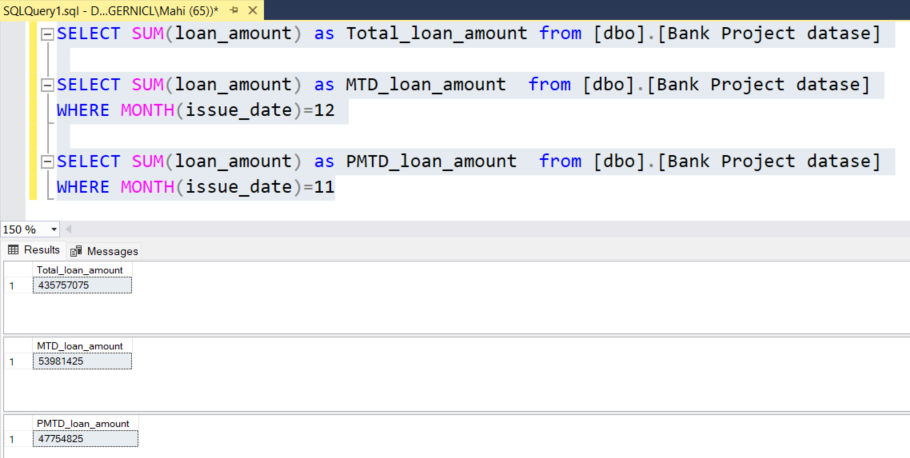
SELECT SUM(loan\_amount) as Total\_loan\_amount from [dbo].[Bank Project datase]

SELECT SUM(loan\_amount) as MTD\_loan\_amount from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=12

SELECT SUM(loan\_amount) as PMTD\_loan\_amount from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=11



3) Total Loan Received

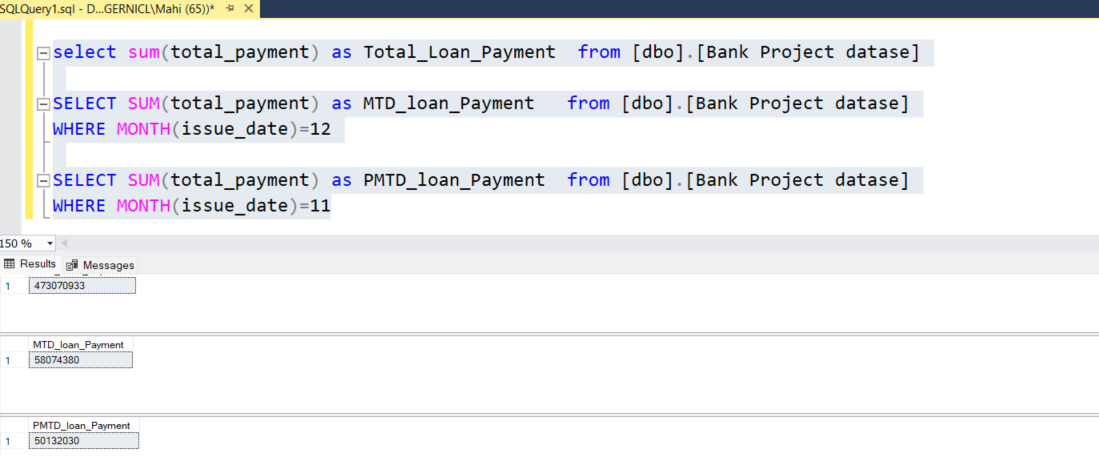
select sum(total\_payment) as Total\_Loan\_Payment from [dbo].[Bank Project datase]

SELECT SUM(total\_payment) as MTD\_loan\_Payment from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=12

SELECT SUM(total\_payment) as PMTD\_loan\_Payment from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=11



4) Average Interest rate

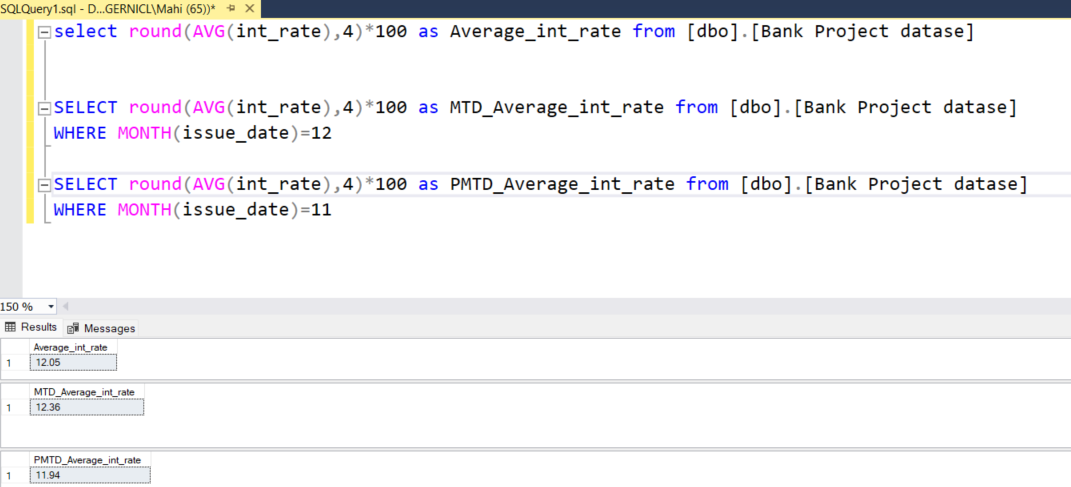
select round(AVG(int\_rate),4)\*100 as Average\_int\_rate from [dbo].[Bank Project datase]

SELECT round(AVG(int\_rate),4)\*100 as MTD\_Average\_int\_rate from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=12

SELECT round(AVG(int\_rate),4)\*100 as PMTD\_Average\_int\_rate from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=11



5) Average DTI

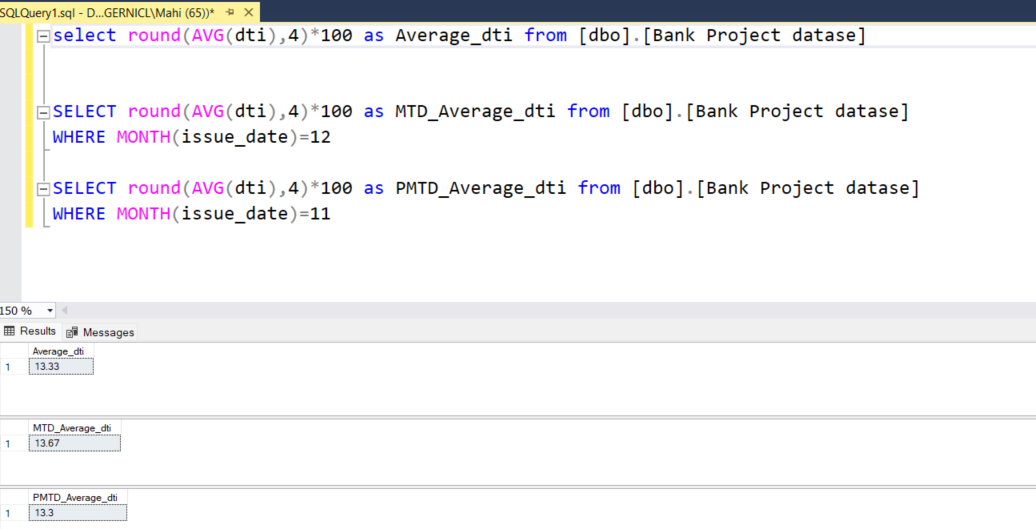
select round(AVG(dti),4)\*100 as Average\_dti from [dbo].[Bank Project datase]

SELECT round(AVG(dti),4)\*100 as MTD\_Average\_dti from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=12

SELECT round(AVG(dti),4)\*100 as PMTD\_Average\_dti from [dbo].[Bank Project datase]

WHERE MONTH(issue\_date)=11



**Good Loan Issued :**

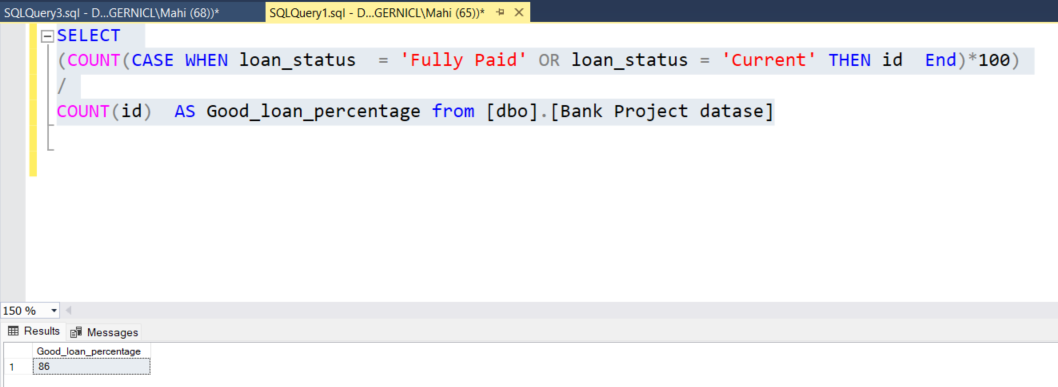
Good loan Percentage :

SELECT

(COUNT(CASE WHEN loan\_status = 'Fully Paid' OR loan\_status = 'Current' THEN id End)\*100)

/

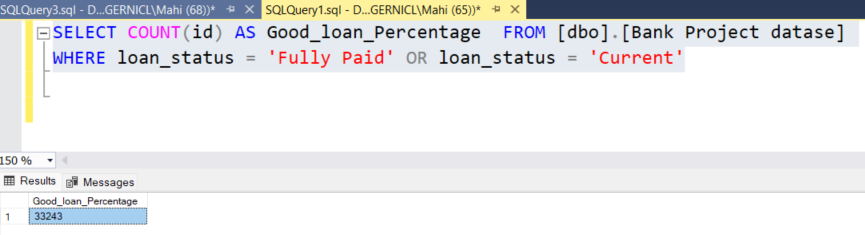
COUNT(id) AS Good\_loan\_percentage from [dbo].[Bank Project datase]



Good Loan Application

SELECT COUNT(id) AS Good\_loan\_Percentage FROM [dbo].[Bank Project datase]

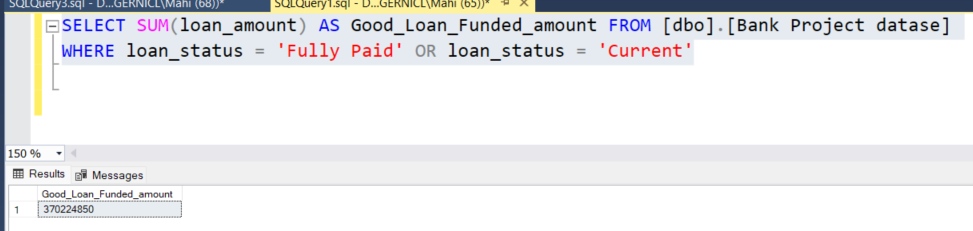
WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



Good loan Funded Amount

SELECT SUM(loan\_amount) AS Good\_Loan\_Funded\_amount FROM [dbo].[Bank Project datase]

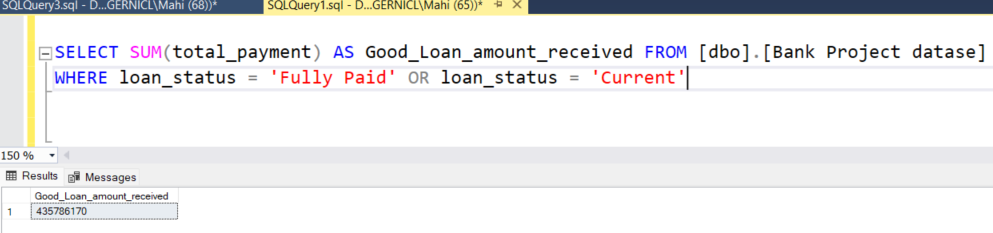
WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



Good Loan Amount Received :

SELECT SUM(total\_payment) AS Good\_Loan\_amount\_received FROM [dbo].[Bank Project datase]

WHERE loan\_status = 'Fully Paid' OR loan\_status = 'Current'



**Bad Loan Issued :**

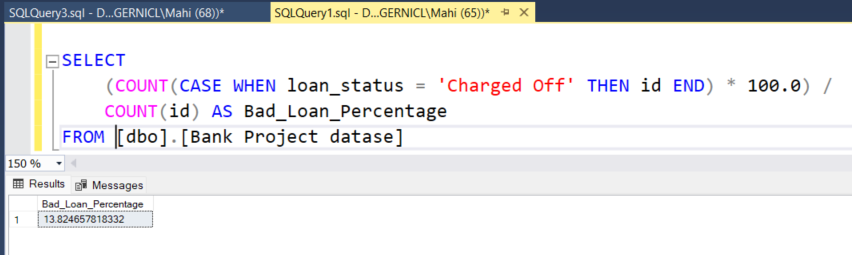
Bad Loan Percentage:

SELECT

(COUNT(CASE WHEN loan\_status = 'Charged Off' THEN id END) \* 100.0) /

COUNT(id) AS Bad\_Loan\_Percentage

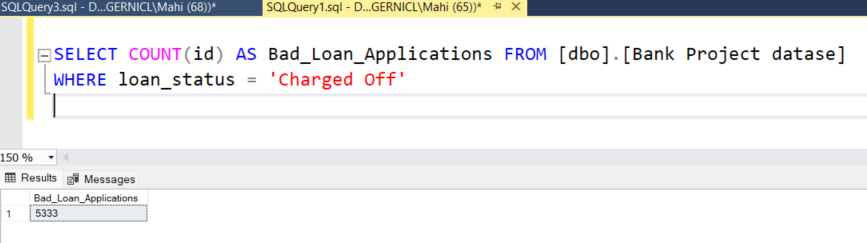
FROM [dbo].[Bank Project datase]



Bad loan Application

SELECT COUNT(id) AS Bad\_Loan\_Applications FROM [dbo].[Bank Project datase]

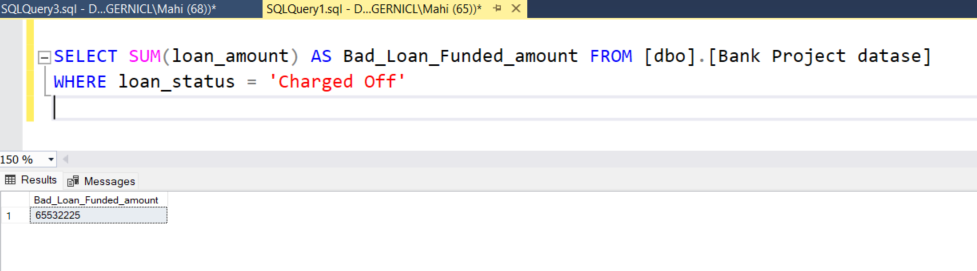
WHERE loan\_status = 'Charged Off'

****

**Bad Loan Funded Amount**

SELECT SUM(loan\_amount) AS Bad\_Loan\_Funded\_amount FROM [dbo].[Bank Project datase]

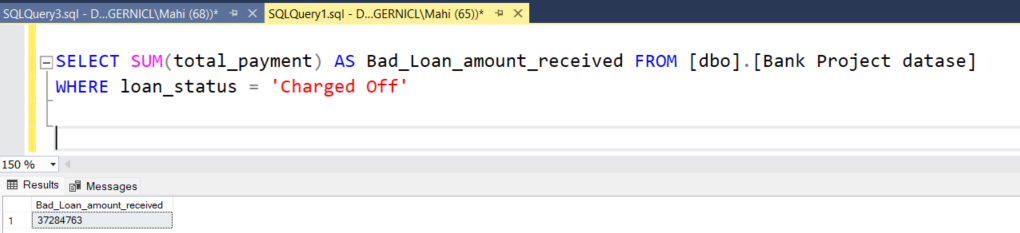
WHERE loan\_status = 'Charged Off'

****

**Bad Loan Amount Received**

SELECT SUM(total\_payment) AS Bad\_Loan\_amount\_received FROM [dbo].[Bank Project datase]

WHERE loan\_status = 'Charged Off'

****

**Loan Status**

SELECT

loan\_status,

COUNT(id) AS LoanCount,

SUM(total\_payment) AS Total\_Amount\_Received,

SUM(loan\_amount) AS Total\_Funded\_Amount,

AVG(int\_rate \* 100) AS Interest\_Rate,

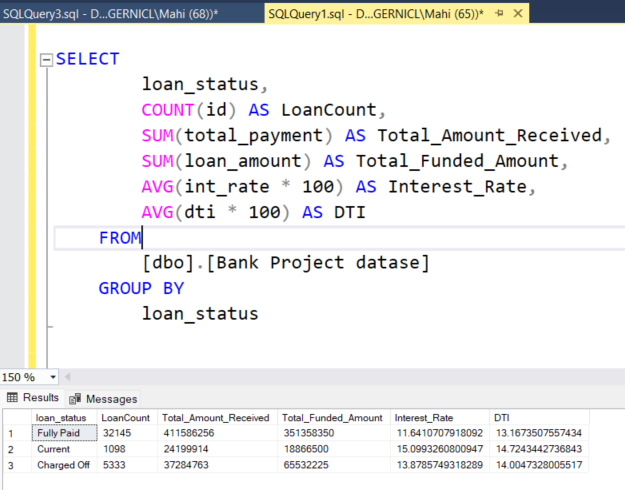
AVG(dti \* 100) AS DTI

FROM

[dbo].[Bank Project datase]

GROUP BY

loan\_status

****

SELECT

loan\_status,

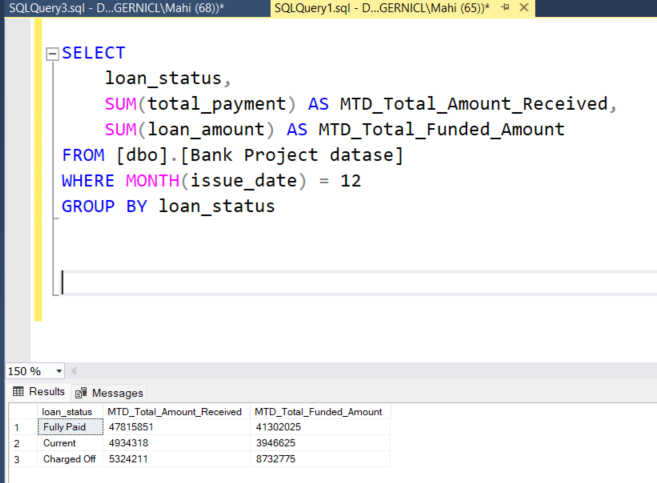
SUM(total\_payment) AS MTD\_Total\_Amount\_Received,

SUM(loan\_amount) AS MTD\_Total\_Funded\_Amount

FROM [dbo].[Bank Project datase]

WHERE MONTH(issue\_date) = 12

GROUP BY loan\_status

****

**DashBoard 2 :**

**Bank Loan Report Overview**

**Monthly:**

SELECT

MONTH(issue\_date) AS Month\_Munber,

DATENAME(MONTH, issue\_date) AS Month\_name,

COUNT(id) AS Total\_Loan\_Applications,

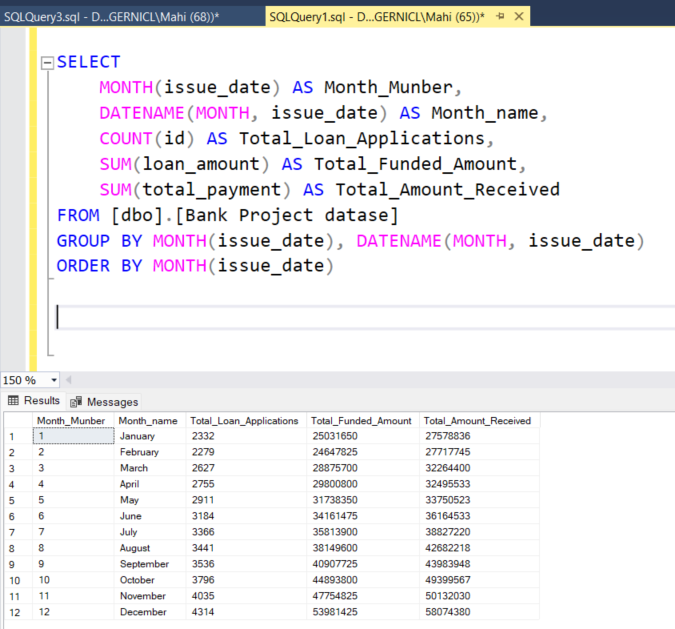
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

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

ORDER BY MONTH(issue\_date)

****

**State :**

SELECT

address\_state AS State,

COUNT(id) AS Total\_Loan\_Applications,

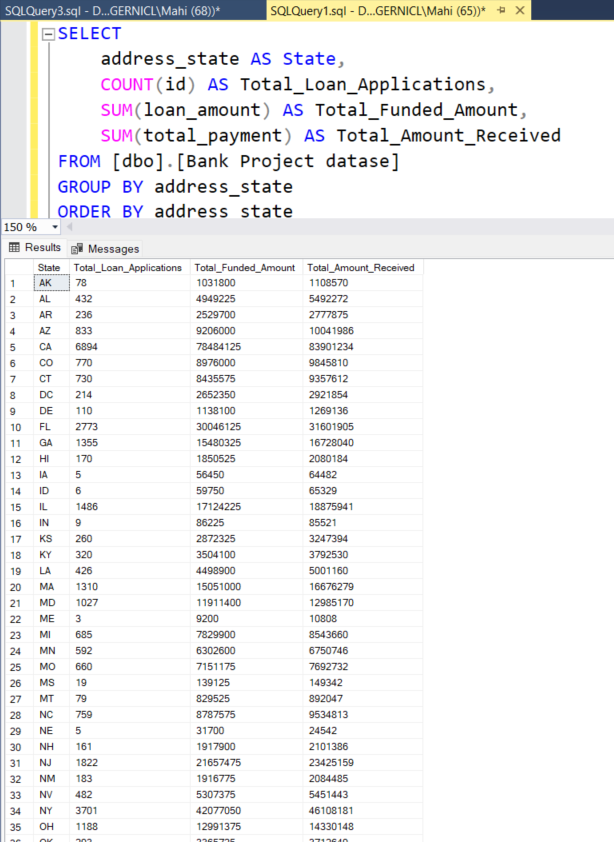
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

GROUP BY address\_state

ORDER BY address\_state

****

**C) Term wise**

SELECT

term AS Term,

COUNT(id) AS Total\_Loan\_Applications,

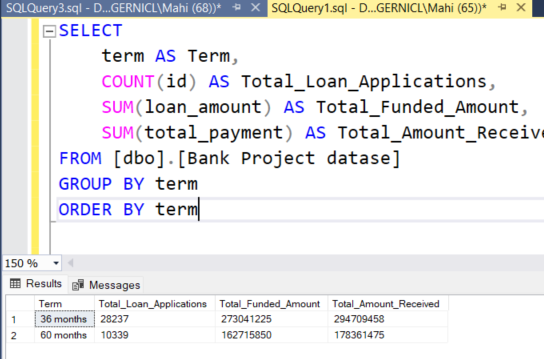
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

GROUP BY term

ORDER BY term

****

**D) Employee Length**

SELECT

emp\_length AS Employee\_Length,

COUNT(id) AS Total\_Loan\_Applications,

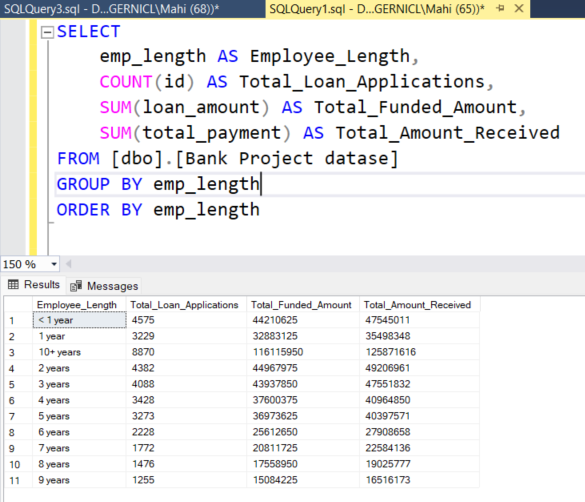
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

GROUP BY emp\_length

ORDER BY emp\_length

****

**Purpose:**

SELECT

purpose AS PURPOSE,

COUNT(id) AS Total\_Loan\_Applications,

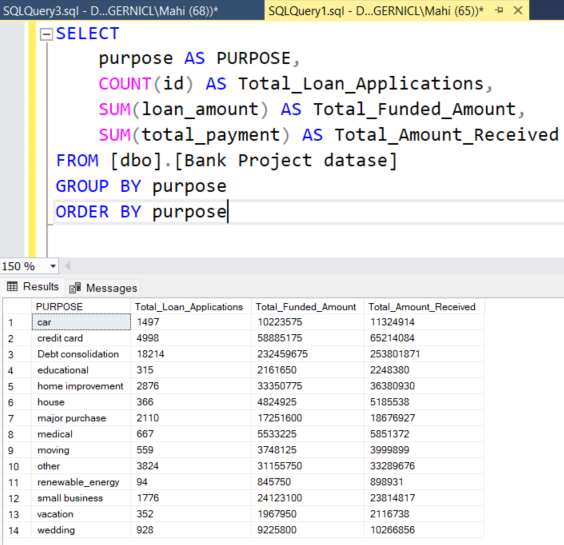
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

GROUP BY purpose

ORDER BY purpose

****

**Home Ownership:**

SELECT

home\_ownership AS Home\_Ownership,

COUNT(id) AS Total\_Loan\_Applications,

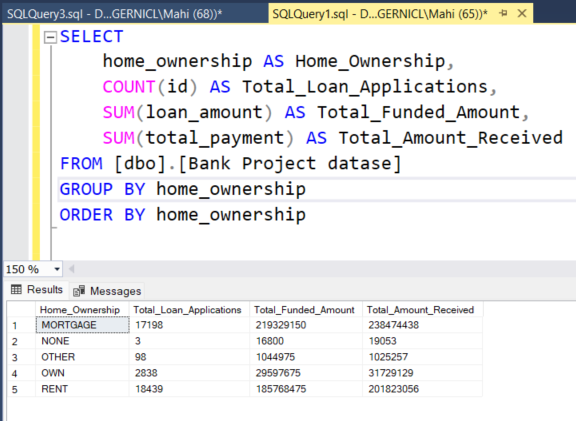
SUM(loan\_amount) AS Total\_Funded\_Amount,

SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

GROUP BY home\_ownership

ORDER BY home\_ownership

****

**This is the Result when we do filtering according to Grade**

SELECT

purpose AS PURPOSE,

COUNT(id) AS Total\_Loan\_Applications,

SUM(loan\_amount) AS Total\_Funded\_Amount,

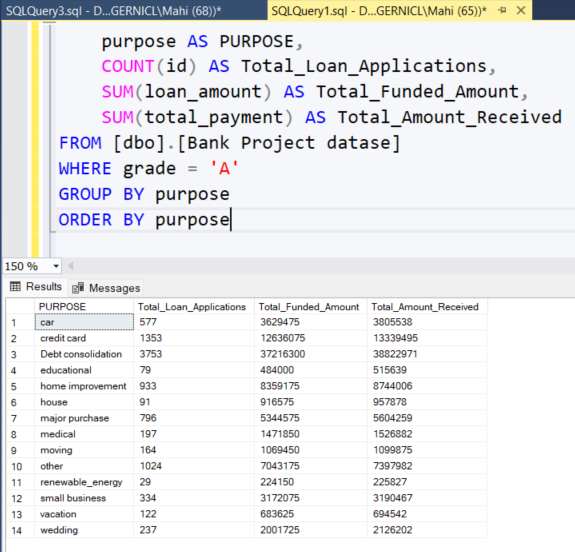
SUM(total\_payment) AS Total\_Amount\_Received

FROM [dbo].[Bank Project datase]

WHERE grade = 'A'

GROUP BY purpose

ORDER BY purpose

****