SQL Server Management Studio

- Imported data to SQL Management Server
- Made id as primary key
- Changed nvarchar to varchar
- Changed emp title to Varchar(100)
- Loan amount to int from small int
- Data successfully imported
- Create database

SELECT COUNT (id) as Total Applications from financial loan

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SELECT COUNT (id) as Total_Applications from financial_loan

Total_Applications
38576
```

SELECT COUNT (id) as MTD_Loan_Applications from financial_loan WHERE MONTH(issue_date)=12

```
SELECT COUNT (id) as MTD_Loan_Applications from financial_loan
WHERE MONTH(issue_date)=12

MTD_Loan_Applications
4314
```

SELECT COUNT(id) AS PMTD_Loan_Applications FROM financial_loan WHERE MONTH(issue_date) = 11

```
SELECT COUNT(id) AS PMTD_Loan_Applications FROM financial_loan

WHERE MONTH(issue_date) = 11

PMTD_Loan_Applications

1 4035
```

SELECT SUM(loan_amount) AS Total_Funded_Amount FROM financial_loan

Total_Funded_Amount

435757075

SELECT SUM(loan_amount) AS Total_Funded_Amount FROM financial_loan WHERE MONTH(issue_date) = 12

Total_Funded_Amount 53981425

SELECT SUM(loan_amount) AS PMTD_Total_Funded_Amount FROM financial_loan

WHERE MONTH(issue_date) = 11

PMTD_Total_Funded_Amount

47754825

SELECT AVG(int_rate)*100 AS Avg_Int_Rate FROM financial_loan

Avg Int Rate

12.0488314172048

SELECT AVG(int_rate)*100 AS MTD_Avg_Int_Rate FROM financial_loan WHERE MONTH(issue_date) = 12

MTD_Avg_Int_Rate 12.3560408676042

SELECT AVG(int_rate)*100 AS PMTD_Avg_Int_Rate FROM financial_loan WHERE MONTH(issue_date) = 11

PMTD_Avg_Int_Rate

11.9417175498261

SELECT AVG(dti)*100 AS Avg_DTI FROM financial_loan

Avg_DTI 13.3274331211432

SELECT AVG(dti)*100 AS Avg_DTI FROM financial_loan WHERE MONTH(issue_date) = 12

Avg_DTI 13.6655377880425

SELECT AVG(dti)*100 AS Avg_DTI FROM financial_loan WHERE MONTH(issue_date) = 11

Avg_DTI 13.3027335836364

051 507

SELECT

(COUNT(CASE WHEN loan_status = 'Fully Paid' OR loan_status = 'Current' THEN id END) * 100.0) /

COUNT(id) AS Good Loan Percentage

FROM financial loan

Good_Loan_Percentage 86.175342181667

SELECT COUNT(id) AS Good_Loan_Applications FROM financial_loan WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'

Good_Loan_Applications
33243

SELECT SUM(loan_amount) AS Good_Loan_Funded_amount FROM financial_loan WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'

Good_Loan_Funded_amount 370224850

SELECT SUM(total_payment) AS Good_Loan_amount_received FROM financial_loan

WHERE loan_status = 'Fully Paid' OR loan_status = 'Current'

Good_Loan_amount_received 435786170

SELECT

(COUNT(CASE WHEN loan_status = 'Charged Off' THEN id END) * 100.0) / COUNT(id) AS Bad_Loan_Percentage FROM financial_loan

Bad_Loan_Percentage 13.824657818332

SELECT COUNT(id) AS Bad_Loan_Applications FROM financial_loan WHERE loan_status = 'Charged Off'

Bad_Loan_Applications
5333

SELECT SUM(loan_amount) AS Bad_Loan_Funded_amount FROM financial_loan WHERE loan_status = 'Charged Off'

Bad_Loan_Funded_amount 65532225

SELECT SUM(total_payment) AS Bad_Loan_amount_received FROM financial_loan WHERE loan_status = 'Charged Off'

Bad_Loan_amount_received 37284763

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

financial_loan

GROUP BY

loan_status

	loan_status	LoanCount	Total_Amount_Received	Total_Funded_Amount	Interest_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

SELECT

loan_status,

SUM(total_payment) AS MTD_Total_Amount_Received,

SUM(loan_amount) AS MTD_Total_Funded_Amount

FROM financial_loan

WHERE MONTH(issue_date) = 12

GROUP BY loan_status

		J	
	loan_status	MTD_Total_Amount_Received	MTD_Total_Funded_Amount
1	Fully Paid	47815851	41302025
2	Current	4934318	3946625
3	Charged Off	5324211	8732775

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 financial_loan
GROUP BY address_state
ORDER BY address_state

	State	Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received
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
7	CT	730	8435575	9357612
8	DC	214	2652350	2921854
9	DE	110	1138100	1269136
10	FL	2773	30046125	31601905
11	GA	1355	15480325	16728040
		170	1050505	0000101

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 financial_loan GROUP BY term ORDER BY term

Term	Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received	
36 months		273041225	294709458	
60 months		162715850	178361475	

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 financial_loan GROUP BY emp_length ORDER BY emp_length

Employee_Length	Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received
< 1 year	4575	44210625	47545011
1 year	3229	32883125	35498348
10+ years	8870	116115950	125871616
2 years	4382	44967975	49206961
3 years	4088	43937850	47551832
4 years	3428	37600375	40964850
5 years	3273	36973625	40397571
6 years	2228	25612650	27908658
7 years	1772	20811725	22584136
8 years	1476	17558950	19025777
9 years	1255	15084225	16516173

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 financial_loan GROUP BY purpose ORDER BY purpose

# K	# Results Messages					
	PURPOSE	Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received		
1	car	1497	10223575	11324914		
2	credit card	4998	58885175	65214084		
3	Debt consolidation	18214	232459675	253801871		
4	educational	315	2161650	2248380		
5	home improvement	2876	33350775	36380930		
6	house	366	4824925	5185538		
7	major purchase	2110	17251600	18676927		
8	medical	667	5533225	5851372		
9	moving	559	3748125	3999899		
10	other	3824	31155750	33289676		
11	renewable energy	94	845750	898931		

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 financial_loan

GROUP BY home_ownership ORDER BY home_ownership

Re	sults	Messages			
	Home_Ownership		Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received
	MORTGAGE		17198	219329150	238474438
	NON	ΙE	3	16800	19053
	OTH	ER	98	1044975	1025257
	OWN	N	2838	29597675	31729129
	REN	IT	18439	185768475	201823056

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 financial_loan WHERE grade = 'A' GROUP BY purpose ORDER BY purpose

	PURPOSE	Total_Loan_Applications	Total_Funded_Amount	Total_Amount_Received
1	car	577	3629475	3805538
2	credit card	1353	12636075	13339495
3	Debt consolidation	3753	37216300	38822971
4	educational	79	484000	515639
5	home improvement	933	8359175	8744006
6	house	91	916575	957878
7	major purchase	796	5344575	5604259
8	medical	197	1471850	1526882
9	moving	164	1069450	1099875
10	other	1024	7043175	7397982
11	renewable_energy	29	224150	225827