



SQL PROJECT-

Loan Management System



The project is all about loan management system.

In this project I have created three tables-

1. **Loans**-This table contains all information about loans.
2. **Borrower**-This table contains information about the borrower details.
3. **Account Details**-This table data about account user.

1. Display year wise loan amount from **BORROWER** table.

QUERY-SELECT YEAR, LOAN_AMOUNT FROM BORROWER;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
year	loan_amount		
2010	50000		
2012	100000		
2020	150000		
2021	250000		
2008	200000		
2000	100000		
2022	50000		
2024	80000		
2022	60000		
2010	100000		
1999	55000		
1995	90000		
2015	115000		
2005	125000		
2008	150000		
2002	250000		
2020	80000		

2. According to borrower id from the **LOANS** table. show me the records of users who are employed and their loan amount is greater than 25000.

**QUERY-SELECT EMPLOYMENTSTATUS, LOANAMOUNT FROM LOANS WHERE
EMPLOYMENTSTATUS='EMPLOYED' AND LOANAMOUNT > 25000;**

Output-

Result Grid			
Filter Rows:		Edit:	Export/Import:
Borrower_id	EmploymentStatus	loanamount	
1012	Employed	26045	
1014	Employed	37898	
1019	Employed	55353	
1020	Employed	25443	
1021	Employed	48716	
1022	Employed	30088	
1025	Employed	27197	
1035	Employed	47795	
1040	Employed	25264	
1053	Employed	25576	
1056	Employed	53987	
1058	Employed	29418	
1061	Employed	41215	
1063	Employed	29501	
1064	Employed	36798	
1070	Employed	48331	

3. Show me only Credit Score column from **LOANS** table. Do not return duplicate values.

QUERY-SELECT DISTINCT CREDITSCORE FROM LOANS;

OUTPUT-

Result Grid	
Filter Rows:	
Export:	
Wrap Cell Content:	
CreditScore	
617	
628	
570	
545	
594	
626	
564	
516	
603	
612	
478	
591	
573	

4. Write a query to fetch records that contains Transaction type as Deposit arranged in Ascending order of Account No. Query must return Transaction id, transaction type and Account No from **ACCOUNT DETAILS** table.

QUERY- SELECT TRANSACTION_ID, TRANSACTION_TYPE, ACCOUNT_NO FROM ACCOUNT_DETAILS WHERE TRANSACTION_TYPE='DEPOSIT' ORDER BY ACCOUNT_NO;

OUTPUT-

Transaction_id	Transaction_type	Account_No
TID-28	Deposit	65897695
TID-24	Deposit	645976994
TID-30	Deposit	658924994
TID-27	Deposit	658967994
TID-11	Deposit	658976534
TID-29	Deposit	658976933
TID-13	Deposit	658978834
TID-18	Deposit	668976912
TID-21	Deposit	678976454
TID-33	Deposit	808976980
TID-34	Deposit	858976990
TID-35	Deposit	888976988
TID-23	Deposit	888976994
TID-16	Deposit	908976979
TID-17	Deposit	958976965

5. Select all users from **ACCOUNT DETAILS** table whose first name is Vikas OR last name is Patil.

QUERY- SELECT * FROM ACCOUNT_DETAILS WHERE FNAME='VIKAS' OR LNAME='PATIL';

OUTPUT-

Transaction_id	Transaction_type	FName	LName	Account_Balance	Account_No	IFSC_code	CVV
TID-11	Deposit	Vikas	Patil	25000	658976534	ICIC0000424	235
TID-13	Deposit	Satish	Patil	25000	658978834	ICIC0000428	354
TID-34	Deposit	Sidharth	Patil	35000	858976990	ICIC0000644	134
TID-35	Deposit	Mack	Patil	85000	888976988	ICIC0000888	712

6. Write a query to display only first 5 records from the **BORROWER** table. Query must return all the columns from the **BORROWER** table.

QUERY- SELECT * FROM BORROWER LIMIT 5;

OUTPUT-

Borrower_name	Status	loan_term	Year	Loan_amount	Borrower_id
Ramesh	Active	6	2010	50000	1011
Rutika	Paid Off	12	2012	100000	1012
Akash	Defaulted	18	2020	150000	1013
Jay	Active	12	2021	250000	1014
Prem	Active	12	2008	200000	1015

7. Write a Query to count the total loan users from the **LOANS** table.

QUERY- SELECT COUNT (*) AS TOTAL_LOAN_USERS FROM LOANS;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
total_loan_users			
198			

8. Write a query to display maximum Account Balance, minimum Account Balance and average Account Balance from **ACCOUNT DETAILS** table.

QUERY- SELECT MAX(ACCOUNT_BALANCE) AS MAXIMUM_BALANCE, MIN(ACCOUNT_BALANCE) AS MINIMUM_BALANCE, AVG(ACCOUNT_BALANCE) AS AVERAGE_BALANCE FROM ACCOUNT_DETAILS;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Maximum_Balance	Minimum_Balance	Average_Balance	
775000	20000	78160.0000	

9. Count the No of loan amounts which are null in the **BORROWER** table.

QUERY- SELECT COUNT(LOAN_AMOUNT) FROM BORROWER WHERE LOAN_TERM IS NULL;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
count(Loan_amount)			
0			

10. Replace Active with Active Account in **BORROWER** table.

QUERY- SELECT REPLACE (STATUS, "ACTIVE", 'ACTIVE ACCOUNT') AS UPDATED_RESULT FROM BORROWER;

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Updated_Result				
Active Account				
Paid Off				
Defaulted				
Active Account				
Active Account				
Active Account				
Paid Off				
Defaulted				
Paid Off				
Defaulted				
Paid Off				
Defaulted				
Paid Off				
Defaulted				
Paid Off				
Active Account				
Active Account				
Defaulted				

11. Find the second Highest loan amount from **LOANS** table.

QUERY- SELECT MAX (LOANAMOUNT) AS SECOND_MAXIMUM FROM LOANS

WHERE LOANAMOUNT! = (SELECT MAX (LOANAMOUNT) FROM LOANS);

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Second_Maximum				
66582				

12. Display Employment Status wise count of loan users from **LOANS** table.

QUERY- SELECT EMPLOYMENTSTATUS, COUNT(BORROWER_ID) AS COUNT_OF_USERS FROM LOANS GROUP BY EMPLOYMENTSTATUS;

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
EmploymentStatus	Count_Of_Loan_Users			
Employed	170			
Self-Employed	16			
Unemployed	12			

13. Display the first name and last name of user in single column from **ACCOUNT DETAILS** table.
Give Full Name as updated column name.

QUERY- SELECT CONCAT(FNAME,'-->', LNAME) AS FULL_NAME FROM ACCOUNT_DETAILS;

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Full_Name			
▶	Vikas-->Patil			
	Rajesh-->Jadhav			
	Satish-->Patil			
	Vinod-->Potdar			
	Vinayak-->Chavan			
	Jack-->Willian			
	Ritesh-->Deshmukh			
	Ramesh-->Pawar			
	Suraj-->Chavan			
	Abhijit-->Sawant			
	Veer-->Kole			
	Arnav-->Chavre			
	Shubham-->Yeldare			
	Sarth-->Shetthi			
	Sonam-->Sawant			
	Monali-->Shingare			
	Pallavi-->Gove			

14. Write a query to calculate Total Loan Amount generated by loan amount from **LOANS** table using **INNER JOIN**. Query must return only Total Loan Amount generated.

QUERY- SELECT SUM (LOANS.LOANAMOUNT) AS TOTAL_LOAN_AMOUNT

FROM BORROWER

INNER JOIN LOANS ON BORROWER.BORROWER_ID=LOANS.BORROWER_ID;

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Total_Loan_Amount			
▶	3542597			

15. Write a query to Display Marital Status and Borrower name from **LOANS AND BORROWER** table using **RIGHT JOIN**. Query must return Marital Status and Borrower Name.

**QUERY- SELECT LOANS.MARITALSTATUS AS USER_MARITAL_STATUS,
BORROWER.BORROWER_NAME AS BORROWER_NAME**

FROM LOANS

RIGHT JOIN BORROWER ON LOANS.BORROWER_ID=BORROWER.BORROWER_ID;

OUTPUT-

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:		
	User_Marital_Status	Borrower_name
▶	Married	Ramesh
	Single	Rutika
	Married	Akash
	Single	Jay
	Married	Prem
	Married	Prajakta
	Married	Aaru
	Divorced	Mahesh
	Divorced	Raj
	Married	Satish
	Single	Arnav
	Married	Shubham
	Married	vikas

16. Write a query to Display Marital Status and Borrower name from **LOANS AND BORROWER** table using **LEFT JOIN**. Query must return Marital Status and Borrower Name.

QUERY- SELECT LOANS.MARITALSTATUS AS USER_MARITAL_STATUS,
BORROWER.BORROWER_NAME AS BORROWER_NAME

FROM LOANS

LEFT JOIN BORROWER ON LOANS.BORROWER_ID=BORROWER.BORROWER_ID;

OUTPUT-

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:		
	User_Marital_Status	Borrower_name
	Single	Leo
	Divorced	Owen
	Married	Samuel
	Divorced	Advik
	Divorced	Arjun
	Widowed	NULL
	Single	NULL
	Married	NULL
	Single	NULL
	Single	NULL
	Married	Atharv
	Married	Eshhan
	Married	krishna
	Married	Shivansh
	Married	Viraj
	Divorced	Aryan
	Married	Kiran

17. Write a query it matches User Borrower Id from **BORROWER** table that are from same Status using **SELF JOIN**.

QUERY- SELECT * FROM BORROWER AS A, BORROWER AS B

WHERE A. STATUS = B. STATUS

AND A. BORROWER_ID <>B.BORROWER_ID;

OUTPUT-

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	Borrower_name	Status	loan_term	Year	Loan_amount	Borrower_id	Borrower_name	Status	loan_term	Year	Loan_amount	Borrower_id
▶	Tanuu	Active	60	2022	150000	1164	Ramesh	Active	6	2010	50000	1011
	Omkar	Active	60	2018	150000	1163	Ramesh	Active	6	2010	50000	1011
	Ravi	Active	60	2015	800000	1156	Ramesh	Active	6	2010	50000	1011
	Sarika	Active	60	2018	500000	1155	Ramesh	Active	6	2010	50000	1011
	Neha	Active	48	2019	2100000	1150	Ramesh	Active	6	2010	50000	1011
	Arman	Active	48	2010	2100000	1149	Ramesh	Active	6	2010	50000	1011
	Kisan	Active	48	2010	1750000	1142	Ramesh	Active	6	2010	50000	1011
	Switi	Active	12	1996	1450000	1136	Ramesh	Active	6	2010	50000	1011
	Veer	Active	12	2024	1300000	1133	Ramesh	Active	6	2010	50000	1011
	Kabir	Active	6	2005	1150000	1130	Ramesh	Active	6	2010	50000	1011
	Aryan	Active	6	2008	5000000	1127	Ramesh	Active	6	2010	50000	1011
	krishna	Active	6	2022	6500000	1124	Ramesh	Active	6	2010	50000	1011
	Advik	Active	6	2010	6400000	1115	Ramesh	Active	6	2010	50000	1011
	Samuel	Active	36	2010	6300000	1114	Ramesh	Active	6	2010	50000	1011

18. Fetch all the records of **ACCOUNT DETAILS** table using view.

QUERY-CREATE VIEW LOAN_USER_DETAILS AS SELECT * FROM ACCOUNT_DETAILS;

OUTPUT-

Result Grid								
Filter Rows:				Export: <div>Wrap Cell Content:</div>				
	Transaction_id	Transaction_type	FName	LName	Account_Balance	Account_No	IFSC_code	CVV
▶	TID-11	Deposit	Vikas	Patil	25000	658976534	ICIC0000424	235
	TID-12	Withdraw	Rajesh	Jadhav	50000	658998534	ICIC0000426	432
	TID-13	Deposit	Satish	Patil	25000	658978834	ICIC0000428	354
	TID-14	Withdraw	Vinod	Potdar	25000	658976532	ICIC0000430	556
	TID-15	Withdraw	Vinayak	Chavan	25000	658976994	ICIC0000440	395
	TID-16	Deposit	Jack	Willian	35000	908976979	ICIC0000490	554
	TID-17	Deposit	Ritesh	Deshmukh	55000	958976965	ICIC0000640	213
	TID-18	Deposit	Ramesh	Pawar	80000	668976912	ICIC0000569	956
	TID-19	Withdraw	Suraj	Chavan	67000	778976989	ICIC0000987	887
	TID-20	Withdraw	Abhijit	Sawant	20000	788976955	ICIC0000342	998
	TID-21	Deposit	Veer	Kole	90000	678976454	ICIC0000980	365
	TID-22	Withdraw	Arnav	Chavre	75000	655576994	ICIC0000866	333
	TID-23	Deposit	Shubham	Yeldare	87000	888976994	ICIC000655	355
	TID-24	Deposit	Sarth	Shetthi	23000	645976994	ICIC0000475	665
	TID-25	Withdraw	Sonam	Sawant	25000	657676994	ICIC0000480	897
	TID-26	Withdraw	Monali	Shingare	54000	958976994	ICIC0000554	321
	TID-27	Deposit	Pallavi	Gove	28000	658967994	ICIC0000598	856

19. Display the records of the **ACCOUNT DETAILS** table where First Name should end with 'sh'.
Query must return First Name column and Last Name column.

QUERY- SELECT FNAME, LNAME FROM ACCOUNT_DETAILS WHERE FNAME LIKE '%SH';

OUTPUT-

Result Grid		
Filter Rows:		
Export: Wrap Cell Content:		
	FName	LName
▶	Rajesh	Jadhav
	Satish	Patil
	Ritesh	Deshmukh
	Ramesh	Pawar

20. Write a query it returns Status from **BORROWER** table and Home Owner Ship Status from **LOANS** table using **UNION**. Query must return only distinct values.

QUERY- SELECT DISTINCT STATUS FROM BORROWER

UNION

SELECT HOMEOWNERSHIPSTATUS FROM LOANS;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Status			
Active			
Paid Off			
Defaulted			
Own			
Mortgage			
Rent			
Other			

21. Return the ASCII value of the first character in Employment Status column from **LOAN** table.
Do not return any duplicate values.

QUERY- SELECT DISTINCT ASCII (EMPLOYMENTSTATUS) AS USER_STATUS

FROM LOANS;

OUTPUT-

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
User_Status			
69			
83			
85			

22. Query the list of First Name and Last Name from **ACCOUNT DETAILS** table that do not start with vowels. result cannot contain duplicates.

QUERY-SELECT DISTINCT FNAME, LNAMEFROM ACCOUNT_DETAILS

WHERE FNAME NOT LIKE 'A%'

AND FNAME NOT LIKE 'E%'

AND FNAME NOT LIKE 'I%'

AND FNAME NOT LIKE 'O%'

AND FNAME NOT LIKE 'U%';

OUTPUT-

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
FName	LName			
Vikas	Patil			
Rajesh	Jadhav			
Satish	Patil			
Vinod	Potdar			
Vinayak	Chavan			
Jack	Willian			
Ritesh	Deshmukh			
Ramesh	Pawar			
Suraj	Chavan			
Veer	Kole			
Shubham	Yeldare			
Sarth	Shetthi			

23.

