Bank Loan Assessment

Data:

Execute the contents of below file

Data Script File

Assignment:

1. Populate the Decision_date column data using below logic.

   a. Decision_date is 3 working days after the applied_date excluding the date applied.

   b. Saturday and Sunday are non working days.

   c. Example: for applied_date 03-AUG-17 which is Thursday, Decision_date will be 08-AUG-17 (Tuesday)

2. Add new column Total_days Number(3) to Bank_Loan table. Populate the Decision_date MINUS applied_date into Total_days

   Example for very first row Total_days is 5

3. CUSTOMER_DETAILS table contains details such as Name, Occupation, Date of Birth of customers applied for Loans. ID column is Primary Key. This will be Foreign Key in Bank Loan Table.

Write SQL to produce below Output:

	ID	STATUS	TOTAL_AMOUNT	STATUS2	REVISED_AMOUNT	NAME	OCCUPATION	DOB
1	1	approved	13000	inactive	12000	Anuj	Accountant	01-JAN-90
2	1	rejected	5000	inactive	4000	Anuj	Accountant	01-JAN-90
3	1	approved	71000	active	73500	Anuj	Accountant	01-JAN-90
4	2	approved	39000	inactive	37000	Bindu	Banker	02-FEB-92
5	2	rejected	50000	inactive	48000	Bindu	Banker	02-FEB-92
6	2	rejected	77000	inactive	75000	Bindu	Banker	02-FEB-92
7	2	rejected	3000	active	5500	Bindu	Banker	02-FEB-92
8	2	rejected	56000	inactive	54000	Bindu	Banker	02-FEB-92
9	3	approved	7000	inactive	4000	Cathy	Cashier	01-MAR-93
10	4	approved	36000	active	38500	David	Doctor	24-DEC-94
11	4	approved	55000	inactive	51000	David	Doctor	24-DEC-94
12	5	approved	77000	inactive	72000	Emily	Engineer	17-MAY-95

4. Add Age number(3) Column to CUSTOMER_DETAILS table and populate the age (in Years) based on current date.

Example: For Anuj who born on '01-JAN-90' age is 34

5. Cross Join both CUSTOMER_DETAILS and Bank Loan tables and provide output.

6. Not all customers in Customer Details table applied for Loans. (You can validate by checking the IDs in Bank Loan table against Customer details table). Please write SQL to provide below output.

	ID	NAME	STATUS
1	1	Anuj	Exist in Bank Loan
2	2	Bindu	Exist in Bank Loan
3	3	Cathy	Exist in Bank Loan
4	4	David	Exist in Bank Loan
5	5	Emily	Exist in Bank Loan
6	6	Fathima	NOT Exist in Bank Loan
7	7	Ganesh	NOT Exist in Bank Loan
8	8	Hasini	NOT Exist in Bank Loan

7. Write an SQL to produce below Output.

The Loan application termed as Approved only when Status is ‘approved’ and Status2 is ‘active’. All the other cases are Rejected.

Total_Applications : The total number of application for each ID

Total_Approved : The total number of applications that are Approved for each ID

Total_Rejected : The total number of applications that are Rejected for each ID

Total_Approved _Amt: The total Amount (both TOTAL_AMOUNT, REVISED_AMOUNT total) of applications that are Approved for each ID

Total_Rejected_Amt : The total Amount (both TOTAL_AMOUNT, REVISED_AMOUNT total) of applications that are Rejected for each ID

MAX_Approved _Amt: The maximum Amount (out of TOTAL_AMOUNT, REVISED_AMOUNT) of applications that are Approved for each ID

MAX_Rejected_Amt : The maximum Amount (out of TOTAL_AMOUNT, REVISED_AMOUNT) of applications that are Rejected for each ID

	ID	TOTAL_APPLICATIONS	TOTAL_APPROVED	TOTAL_REJECTED	TOTAL_APPROVED_AMT	TOTAL_REJECTED_AMT	MAX_APPROVED_AMT	MAX_REJECTED_AMT
1	1	3	1	2	144500	34000	73500	13000
2	2	5	0	5	0	444500	0	77000
3	3	1	0	1	0	11000	0	7000
4	4	2	1	1	74500	106000	38500	55000
5	5	1	0	1	0	149000	0	77000

8 . Write SQL to produce below output

	NAME	TOTAL_APPLICATIONS	TOTAL_APPROVED	TOTAL_REJECTED	TOTAL_APPROVED_AMT	TOTAL_REJECTED_AMT	MAX_APPROVED_AMT	MAX_REJECTED_AMT
1	Anui	3	1	2	144500	34000	73500	13000
2	Bindu	5	0	5	0	444500	0	77000
3	Cathy	1	0	1	0	11000	0	7000
4	David	2	1	1	74500	106000	38500	55000
5	Emily	1	0	1	0	149000	0	77000
6	Fathima	0	0	0	0	0	0	0
7	Ganesh	0	0	0	0	0	0	0
8	Hasini	0	0	0	0	0	0	0