**Name :** Rohit Bangar **Class :** TE-C **Roll No :** TECOC306 **Batch :** C1

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**Assignment-2**

**(Insert, Select, Update, Delete, operators, functions, set operator, all constraints, synonym, sequence)**

**Account(Acc\_no, branch\_name,balance)**

**branch(branch\_name,branch\_city,assets)**

**customer(cust\_name,cust\_street,cust\_city)**

**Depositor(cust\_name,acc\_no)**

**Loan(loan\_no,branch\_name,amount)**

**Borrower(cust\_name,loan\_no)**

**Solve following query:**

**Create above tables with appropriate constraints like primary key, foreign key, check constrains, not null etc.**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**TABLES** :-

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**SQL> select \* from branch**;

BRANCH\_NAME BRANCH\_CITY ASSETS

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Nigdi Pune 100000

Chinchwad Satara 200000

Akurdi Nashik 450000

**SQL> select \* from account;**

ACC\_NO BRANCH\_NAME BALANCE

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101 Nigdi 23000

102 Chinchwad 70000

103 Akurdi 86400

104 Nigdi 56900

105 Akurdi 90000

**SQL> select \* from customer;**

CUST\_NAME CUST\_STREET CUST\_CITY

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Shivani fc Pune

Devesh gcc Pune

Snehal kcc Akurdi

Prerana pcf Akurdi

Piyush pty Satara

Zuber frt Satara

Akash hre Nashik

Sapna vfg Nashik

Yash lnmb Mumbai

Nikita poiuy Mumbai

Siddhi rew Lonavala

Aditya jhg Lonavala

**SQL> select \* from depositor;**

CUST\_NAME ACC\_NO

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Shivani 101

Devesh 102

Snehal 103

Prerana 104

Piyush 105

**SQL> select \* from loan;**

LOAN\_NO BRANCH\_NAME AMOUNT

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501 Akurdi 86000

502 Nigdi 74000

503 Chinchwad 9500

504 Akurdi 10000

505 Nigdi 6400

**SQL> select \* from borrower;**

CUST\_NAME LOAN\_NO

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Shivani 501

Devesh 502

Akash 503

Sapna 504

Yash 505

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**SOLUTIONS:-**

**Q1. Find the names of all branches in loan relation**.

->

**SQL> select distinct branch\_name from loan**;

BRANCH\_NAME

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Nigdi

Akurdi

Chinchwad

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**Q2. Find all loan numbers for loans made at Akurdi Branch with loan amount > 12000**.

->

**SQL> select loan\_no from loan where branch\_name='Akurdi' and amount>12000;**

LOAN\_NO

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501

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**Q3. Find all customers who have a loan from bank. Find their names,loan\_no and loan amount**.

->

**SQL> select borrower.loan\_no,cust\_name,amount from loan,borrower where borrower.loan\_no=loan.loan\_no**;

LOAN\_NO CUST\_NAME AMOUNT

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501 Shivani 86000

502 Devesh 74000

503 Akash 9500

504 Sapna 10000

505 Yash 6400

**SQL> select \* from loan;**

LOAN\_NO BRANCH\_NAME AMOUNT

---------- -------------------- ----------

501 Akurdi 86000

502 Nigdi 74000

503 Chinchwad 9500

504 Akurdi 10000

505 Nigdi 6400

**SQL> select \* from borrower;**

CUST\_NAME LOAN\_NO

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Shivani 501

Devesh 502

Akash 503

Sapna 504

Yash 505

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**Q4. List all customers in alphabetical order who have loan from Akurdi branch.**

->

**SQL> select cust\_name from loan,borrower where borrower.loan\_no = loan.loan\_no and branch\_name='Akurdi' order by cust\_name**;

CUST\_NAME

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Shivani

Sapna

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**Q5. Find all customers who have an account or loan or both at bank.**

->

**SQL> select cust\_name from depositor union select cust\_name from borrower;**

CUST\_NAME

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Shivani

Snehal

Devesh

Sapna

Akash

Prerana

Piyush

Yash.

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**Q6. Find all customers who have both account and loan at bank**.

->

**SQL> select cust\_name from depositor intersect select cust\_name from borrower;**

CUST\_NAME

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Shivani

Devesh

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**Q7. Find all customer who have account but no loan at the bank.**

->

**SQL> select cust\_name from depositor minus select cust\_name from borrower;**

CUST\_NAME

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Snehal

Prerana

Piyush

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**Q8. Find average account balance at Akurdi branch.**

->

**SQL> select avg(balance) from account where branch\_name='Akurdi';**

AVG(BALANCE)

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88200

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**Q9. Find the average account balance at each branch**

->

**SQL> select branch\_name,avg(balance) from account group by branch\_name;**

BRANCH\_NAME AVG(BALANCE)

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Nigdi 39950

Akurdi 88200

Chinchwad 70000

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**Q10. Find no. of depositors at each branch**.

->

**SQL> select branch\_name,count(branch\_name) from account,depositor where depositor.acc\_no=account.acc\_no group by branch\_name;**

BRANCH\_NAME COUNT(BRANCH\_NAME)

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Nigdi 2

Akurdi 2

Chinchwad 1

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**Q11. Find the branches where average account balance > 60000**.

->

**SQL> select branch\_name,avg(balance) from account group by branch\_name having avg(balance)>60000;**

BRANCH\_NAME AVG(BALANCE)

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Akurdi 88200

Chinchwad 70000

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**Q12. Find number of tuples in customer relation**.

->

**SQL> select count(\*) from customer**;

COUNT(\*)

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12

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**Q13. Calculate total loan amount given by bank**.

->

**SQL> select sum(amount) from loan;**

SUM(AMOUNT)

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185900

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**Q14. Delete all loans with loan amount between 1300 and 1500.**

->

**SQL> delete from loan where amount between 6000 and 10000;**

3 rows deleted.

**SQL> select \* from loan;**

LOAN\_NO BRANCH\_NAME AMOUNT

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501 Akurdi 86000

502 Nigdi 74000

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**Q15. Delete all tuples at every branch located in Nigdi**.

->

**SQL> delete from branch where branch\_name='Nigdi';**

1 row deleted.

**SQL> select \* from branch;**

BRANCH\_NAME BRANCH\_CITY ASSETS

-------------------- -------------------- ----------

chinchwad satara 200000

akurdi nashik 450000

**SQL> select \* from account;**

ACC\_NO BRANCH\_NAME BALANCE

---------- -------------------- ----------

101 23000

102 Chinchwad 70000

103 Akurdi 86400

104 56900

105 Akurdi 90000

**SQL> select \* from loan;**

LOAN\_NO BRANCH\_NAME AMOUNT

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501 akurdi 86000

502 74000

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