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Class : TE A

Roll No : TECOA124

Batch : A2

Assignment No. 1

Title: Study of MySQL

```
SQL> select * from loan124;
```

LOAN_NO	BRANCH_NAME	AMOUNT
11	akurdi	120001
12	nigdi	13000
13	nigdi	15000
14	akurdi	40000
15	akurdi	1000
16	malabarhill	100000
17	akurdi	100000

7 rows selected.

```
SQL> select * from account124;
```

ACC_NO	BRANCH_NAME	BALANCE
1	akurdi	50000
2	malabarhill	100000
3	akurdi	1200
4	akurdi	8097

```
SQL> select * from customer124;
```

CUST_NAME

```
-----
```

CUST_STREET

```
-----
```

CUST_CITY

```
-----
```

Vijay

mg road
banglore
nirav
sardar street
Ahemdabad
CUST_NAME

CUST_STREET

CUST_CITY

Mayuresh
Sambaji road
pradhikaran
gauri
hingoli road
CUST_NAME

CUST_STREET

CUST_CITY

nigdi
ashley
parihar
akurdi
ashwin
CUST_NAME

CUST_STREET

CUST_CITY

madam cama
nigdi
6 rows selected.

SQL> select * from borrow124;

LOAN_NO	CUST_NAME
---------	-----------

11	praful
12	sachin;
13	Nirav
14	Mehul
15	Vijay
16	Sandesh
17	karan

7 rows selected.

SQL> select * from deposit124;

ACC_NO	CUST_NAME
1	mayuresh
2	ashwin
3	ram
4	karan

SQL> select * from branch124;

BRANCH_NAME		

BRANCH_CITY ASSETS		

akurdi	pcntda	56000341
malabarhill	kurla	99999999
vizag	vijaynagaram	12345678

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

SQL> select branch_name from loan124;

BRANCH_NAME

akurdi
nigdi
nigdi
akurdi
akurdi
malabarhill

6 rows selected.

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

SQL> select loan_no from loan124 where branch_name='akurdi' and amount>12000;

LOAN_NO

11
14

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

```
SQL> select amount,cust_name,borrow124.loan_no from loan124 inner join borrow on  
loan124.loan_no=borrow124.loan_no;
```

AMOUNT	CUST_NAME	LOAN_NO
120001	praful	11
13000	sachin;	12
15000	Nirav	13
40000	Mehul	14
100000	Vijay	15
1000	Sandesh	16
1400	ram	3
100000	karan	17

8 rows selected.

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

```
SQL> select cust_name from borrow124 where loan_no in(select loan_no from loan124 where  
branch_name='akurdi') group by cust_name;
```

CUST_NAME
ram
karan
praful
Mehul
Sandesh

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

```
SQL> select * from borrow124 union select * from deposit124;
```

LOAN_NO	CUST_NAME
1	mayuresh
2	bhaves
3	ram
16	Sandesh
12	sachin;
11	praful
4	karan
15	Vijay
14	Mehul
13	Nirav

11 rows selected.

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

```
SQL> select * from borrow124 intersect select * from deposit124;
```

LOAN_NO CUST_NAME

3 ram

4 karan

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

```
SQL> select * from deposit124 minus select * from borrow124;
```

ACC_NO CUST_NAME

1 mayuresh

2 bhavesh

3 ashwin

Q8. Find average account balance at Akurdi branch.

```
SQL> select avg(balance) from account124 where branch_name='akurdi';
```

AVG(BALANCE)

19765.6667

Q9. Find the average account balance at each branch

```
SQL> select branch_name,avg(balance) from account124 group by branch_name;
```

BRANCH_NAME AVG(BALANCE)

nigdi 40

malabarhill 100000

akurdi 19765.6667

Q10. Find no. of depositors at each branch.

```
SQL> select count(acc_no)"No. of depositors",branch_name from account124 group by branch_name;
No. of depositors BRANCH_NAME
```

```
-----
1 nigdi
1 malabarhill
3 akurdi
```

Q11. Find the branches where average account balance > 12000.

```
SQL> select branch_name from account124 where(select avg(balance)
2 from account124)>12000;
BRANCH_NAME
```

```
-----
akurdi
nigdi
malabarhill
akurdi
akurdi
```

Q12. Find number of tuples in customer relation.

```
SQL> select count(cust_name) from customer124;
COUNT(CUST_NAME)
```

```
-----
6
```

Q13. Calculate total loan amount given by bank.

```
SQL> select sum(amount) from loan124;
SUM(AMOUNT)
```

```
-----
289001
```

Q. 14. Delete all loans with loan amount between 1300 and 2000.

```
SQL> delete from borrow124 where loan_no in(select loan_no from loan124 where amount>1300 and
amount<1500);
```

1 row deleted.

```
SQL> delete from loan124 where amount>1300 and amount<1500;
```

1 row deleted.

Q15. Delete all tuples at every branch located in Akurdi.

```
SQL> delete from deposit124 where acc_no in(select acc_no from ac=account124 where
branch_name='nigdi');
```

1 row deleted.

```
SQL> delete from account124 where branch_name='nigdi';
```

1 row deleted.

```
SQL> delete from branch124 where branch_name='nigdi';
```

1 row deleted.