

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

Ans. mysql> select distinct branch\_name from Branch;

```
+-----+
| branch_name |
+-----+
| Akurdi-Branch |
| Nigdi-Branch |
+-----+
```

2 rows in set (0.00 sec)

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

Ans. mysql> select loan\_no from Loan where branch\_name='Akurdi-Branch' and amount > 12000;

```
+-----+
| loan_no |
+-----+
| 7001 |
+-----+
```

1 row in set (0.02 sec)

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

Ans. mysql> SELECT Borrower.cust\_name, Borrower.loan\_no, Loan.amount from Borrower inner join Loan on Borrower.loan\_no = Loan.loan\_no;

```
+-----+-----+-----+
| cust_name | loan_no | amount |
+-----+-----+-----+
| Khushal Patil | 7001 | 15000.00 |
| Aryan Patil | 7004 | 6000.00 |
| Sarthak Yere | 7002 | 1320.00 |
| Tejas Danane | 8001 | 77000.00 |
| Yash Patil | 8003 | 50000.00 |
+-----+-----+-----+
```

5 rows in set (0.00 sec)

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

Ans. mysql> SELECT Borrower.cust\_name, Borrower.loan\_no, Loan.amount from Borrower  
-> inner join Loan on Borrower.loan\_no = Loan.loan\_no  
-> where branch\_name="Akurdi-Branch"  
-> Order By Borrower.cust\_name ASC;

```
+-----+-----+-----+
| cust_name | loan_no | amount |
+-----+-----+-----+
| Aryan Patil | 7004 | 6000.00 |
| Khushal Patil | 7001 | 15000.00 |
| Sarthak Yere | 7002 | 1320.00 |
+-----+-----+-----+
```

3 rows in set (0.00 sec)

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

```
Ans. mysql> select distinct Customer.cust_name from Customer
-> left join Depositer ON Customer.cust_name = Depositer.cust_name
-> left join Borrower ON Customer.cust_name = Borrower.cust_name
-> where Depositer.Acc_no is not null OR Borrower.loan_no is not null;
```

cust_name
Anuj Jadhav
Aryan Patil
Gaurav Pawar
Khushal Patil
Sarthak Yere
Tejas Danane
Yash Patil

7 rows in set (0.00 sec)

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

```
Ans. mysql> select distinct Customer.cust_name from Customer
-> left join Depositer ON Customer.cust_name = Depositer.cust_name
-> left join Borrower ON Customer.cust_name = Borrower.cust_name
-> where Depositer.Acc_no is not null AND Borrower.loan_no is not null;
```

cust_name
Aryan Patil
Khushal Patil
Yash Patil

3 rows in set (0.00 sec)

7. Find all customers who have account but no loan at the bank.

```
Ans. mysql> select distinct Customer.cust_name from Customer
-> left join Depositer ON Customer.cust_name = Depositer.cust_name
-> left join Borrower ON Customer.cust_name = Borrower.cust_name
-> where Depositer.Acc_no is not null and Borrower.loan_no is null;
```

cust_name
Anuj Jadhav
Gaurav Pawar

2 rows in set (0.00 sec)

8. Find the average account balance at each branch

```
Ans. mysql> select branch_name,AVG(balance) From Account group by branch_name;
```

branch_name	AVG(balance)
Akurdi-Branch	46400
Nigdi-Branch	33600

2 rows in set (0.00 sec)

9. Find no. of depositors at each branch.

Ans. mysql> select Branch.branch\_name,COUNT(Depositer.cust\_name) as No\_depositors  
from Branch

-> join Account ON Branch.branch\_name = Account.branch\_name

-> join Depositer ON Account.Acc\_no = Depositer.Acc\_no

-> Group by Branch.branch\_name;

branch_name	No_depositors
Akurdi-Branch	3
Nigdi-Branch	2

2 rows in set (0.02 sec)

10. Find name of Customer and city where customer name starts with Letter P.

Ans. mysql> select cust\_name,cust\_city from Customer where cust\_name LIKE 'P%' OR 'p%';

cust_name	cust_city
Pradyumna Sawkar	Pune
Prathmesh Dive	Pune

2 rows in set, 1 warning (0.00 sec)

11. Display distinct cities of branch.

Ans. mysql> select distinct branch\_city from Branch;

branch_city
PCMC
Pune

2 rows in set (0.00 sec)

12. Find the branches where average account balance > 12000

Ans. mysql> select branch\_name from Account Group by branch\_name Having AVG(assets)  
> 12000;

branch_name
Akurdi-Branch
Nigdi-Branch

2 rows in set (0.00 sec)

13. Find number of tuples in customer relation.

Ans. mysql> select COUNT(\*) as No\_of\_Cust from Customer;

No_of_Cust
10

1 row in set (0.00 sec)

14. Calculate total loan amount given by bank.

Ans. mysql> select branch\_name,SUM(amount) as Loan\_Amount from Loan Group By branch\_name;

branch_name	Loan_Amount
Akurdi-Branch	23720
Nigdi-Branch	129444

2 rows in set (0.00 sec)

15. Delete all loans with loan amount between 1300 and 1500.

Ans. mysql> delete from Borrower where loan\_no IN ( select loan\_no from Loan where amount between 1300 and 1500);

Query OK, 1 row affected (0.03 sec)

mysql> delete from Loan where amount between 1300 and 1500;

Query OK, 1 row affected (0.03 sec)

16. Delete all tuples at every branch located in Nigdi.

mysql> delete from Borrower where loan\_no IN (select loan\_no from Loan where branch\_name IN (select branch\_name from Branch where branch\_city = 'Nigdi'));

Query OK, 2 row affected (0.03 sec)

mysql> delete from Loan where branch\_name IN (select branch\_name from Branch where branch\_city = 'Nigdi');

Query OK, 2 row affected (0.03 sec)

mysql> delete from Depositor

where Acc\_no IN (select Acc\_no from Account where branch\_name IN (select branch\_name from Branch where branch\_city = 'Nigdi'));

Query OK, 2 row affected (0.03 sec)

mysql> delete from Account where branch\_name IN (select branch\_name from Branch where branch\_city = 'Nigdi');

Query OK, 5 row affected (0.03 sec)

mysql> delete from Branch where branch\_city = 'Nigdi';

Query OK, 1 row affected (0.03 sec)