

Questions:

Q1 Find names of all branches in loan relation

```
mysql> select branch_name from loan;
+-----+
| branch_name |
+-----+
| Pimpri      |
| Wakad       |
| Chinchwad   |
| Nigdi       |
| Pimpri      |
| Pimpri      |
| Phugewadi   |
+-----+
7 rows in set (0.00 sec)
```

Q2 Find all Loan numbers for loans made at Pimpri Branch with loan amount >12000

```
mysql> select loan_no from loan where branch_name='Pimpri' and Amount>12000;
+-----+
| loan_no |
+-----+
| 2008    |
| 2018    |
+-----+
2 rows in set (0.00 sec)
```

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

```
mysql> select b.cust_name,b.loan_no,l.Amount from borrower b inner join loan l on b.loan_no=l.loan_no;
+-----+-----+-----+
| cust_name | loan_no | Amount |
+-----+-----+-----+
| Charlie   | 2001    | 4000    |
| James     | 2002    | 4500    |
| Chris     | 2005    | 1680    |
| Jessica   | 2006    | 1800    |
| Alex      | 2007    | 6500    |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

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

```
mysql> select b.cust_name,b.loan_no,l.Amount from borrower b inner join loan l on b.loan_no=l.loan_no where l.branch_name='Pimpri' order by b.cust_name;
+-----+-----+-----+
| cust_name | loan_no | Amount |
+-----+-----+-----+
| Charlie   | 2001    | 4000    |
| Chris     | 2005    | 1680    |
| Jessica   | 2006    | 1800    |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

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

```
mysql> select cust_name from depositor union select cust_name from borrower;
+-----+
| cust_name |
+-----+
| Jessica   |
| John      |
| Joseph    |
| Amit      |
| Aditya    |
| Chris     |
| James     |
| Charlie   |
| Alex      |
+-----+
9 rows in set (0.01 sec)
```

Q6 Find the average account balance at Pimpri branch.

```
mysql> select avg(balance) from account where branch_name='Pimpri';
+-----+
| avg(balance) |
+-----+
|          26000 |
+-----+
1 row in set (0.00 sec)
```

Q7 Find the average account balance at each branch.

```
mysql> select branch_name,avg(balance) from account group by branch_name;
```

branch_name	avg(balance)
Pimpri	26000
Wakad	45000
Katraj	40000
Phugewadi	12600
Sangvi	14000
Nigdi	30000

6 rows in set (0.00 sec)

Q8 Find number of depositors at each branch.

```
mysql> select branch_name,count(branch_name) from account a inner join depositor d on a.Acc_no=d.Acc_no group by branch_name;
```

branch_name	count(branch_name)
Wakad	1
Phugewadi	1
Nigdi	1
Katraj	1

4 rows in set (0.00 sec)

Q9 Find the branches where average account balance > 12000

```
mysql> select branch_name from account group by branch_name having avg(balance)>12000;
+-----+
| branch_name |
+-----+
| Pimpri      |
| Wakad       |
| Katraj      |
| Phugewadi   |
| Sangvi      |
| Nigdi       |
+-----+
6 rows in set (0.00 sec)
```

Q10 Find number of tuples in customer relation.

```
mysql> select count(cust_name) no_of_tuples from customer;
+-----+
| no_of_tuples |
+-----+
|              7 |
+-----+
1 row in set (0.00 sec)
```

Q11 Calculate total loan amount given by bank.

```
mysql> select sum(Amount) total_loan_amount from loan;
+-----+
| total_loan_amount |
+-----+
|          117130 |
+-----+
1 row in set (0.00 sec)
```

Q12 Delete all tuples at every branch located in Nigdi

```
mysql> delete from branch where branch_name='Nigdi';
Query OK, 1 row affected (0.02 sec)

mysql> select * from branch;
+-----+-----+-----+
| branch_name | branch_city | assets |
+-----+-----+-----+
| Sangavi     | Pune       | 400000 |
| Pimpri      | Pune       | 550000 |
| Wakad       | Pune       | 159000 |
| Chinchwad   | Pimpri_Chinchwad | 120000 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```