|  |
| --- |
| 2)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) |

+-----------------+

| Tables\_in\_DBMSL |

+-----------------+

| Account |

| Borrower |

| Branch |

| Customer |

| Depositor |

| Loan |

+-----------------+

mysql> select\* from Branch;

+-----------------+-------------+--------+

| Branch\_Name | Branch\_City | Assets |

+-----------------+-------------+--------+

| College Road | Nasik | aaa |

| Gangapur Road | Nasik | aaa |

| Indira Nagar | Nasik | aaa |

| Nasik Road | Nasik | aaa |

| Ravivar Karanja | Nasik | aaa |

| Sharanpur Road | Nasik | aaa |

+-----------------+-------------+--------+

mysql> select\* from Account;

+--------+-----------------+---------+

| Acc\_No | Branch\_Name | Balance |

+--------+-----------------+---------+

| 1001 | Gangapur Road | 1010.55 |

| 1004 | Sharanpur Road | 310.55 |

| 1022 | Gangapur Road | 2400.88 |

| 1043 | Gangapur Road | 23780.3 |

| 1057 | Ravivar Karanja | 23260.6 |

| 1060 | Sharanpur Road | 560.55 |

| 1066 | Sharanpur Road | 11560.5 |

| 1290 | Ravivar Karanja | 760.55 |

| 1330 | Indira Nagar | 560.55 |

| 1400 | Gangapur Road | 760.55 |

+--------+-----------------+---------+

mysql> select\* from Customer;

+------------+---------------+-----------+

| Cust\_Name | Cust\_Street | Cust\_City |

+------------+---------------+-----------+

| Ankita | Deolali Camp | Nasik |

| Atharva | Gangapur Road | Nasik |

| Durgesh | Pavan Nagar | Nasik |

| Harsha | Canada Corner | Nasik |

| Ojaswini | College Road | Nasik |

| Sharvari | Golf club | Nasik |

| Shreya | Indira Nagar | Nasik |

| Uddesh | Amrutdham | Nasik |

| Varun | Trimbak Road | Nasik |

| Yashashree | Rane Nagar | Nasik |

+------------+---------------+-----------+

mysql> select\* from Depositor;

+------------+--------+

| Cust\_Name | Acc\_No |

+------------+--------+

| Atharva | 1001 |

| Uddesh | 1004 |

| Sharvari | 1060 |

| Ankita | 1290 |

| Yashashree | 1330 |

| Ojaswini | 1400 |

| Durgesh | 1022 |

| Harsha | 1043 |

| Shreya | 1057 |

| Varun | 1066 |

+------------+--------+

mysql> select\* from Loan;

+---------+-----------------+--------+

| Loan\_No | Branch\_Name | Amount |

+---------+-----------------+--------+

| 1 | Gangapur Road | 1000 |

| 2 | Sharanpur Road | 2000 |

| 3 | Ravivar Karanja | 2800 |

| 4 | Gangapur Road | 10000 |

| 5 | Ravivar Karanja | 5000 |

| 6 | Gangapur Road | 2500 |

+---------+-----------------+--------+

mysql> select\* from Borrower;

+-----------+---------+

| Cust\_Name | Loan\_No |

+-----------+---------+

| Ankita | 3 |

| Sharvari | 2 |

| Atharva | 1 |

| Harsha | 4 |

| Shreya | 5 |

| Ojaswini | 6 |

+-----------+---------+

======================================================================================

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

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

mysql> select Branch\_Name from Loan;

+-----------------+

| Branch\_Name |

+-----------------+

| Gangapur Road |

| Gangapur Road |

| Gangapur Road |

| Ravivar Karanja |

| Ravivar Karanja |

| Sharanpur Road |

+-----------------+

======================================================================================

2.Find all loan numbers for loans made at Shivaji nagar Branch with loan amount > 1500.

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

mysql> select Loan\_No from Loan where Branch\_Name='Gangapur Road' and Amount>1500;

+---------+

| Loan\_No |

+---------+

| 4 |

| 6 |

+---------+

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

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

mysql> select Loan.Loan\_No,Cust\_Name,Amount from Loan,Borrower where Loan.Loan\_No=Borrower.Loan\_No;

+---------+-----------+--------+

| Loan\_No | Cust\_Name | Amount |

+---------+-----------+--------+

| 1 | Atharva | 1000 |

| 2 | Sharvari | 2000 |

| 3 | Ankita | 2800 |

| 4 | Harsha | 10000 |

| 5 | Shreya | 5000 |

| 6 | Ojaswini | 2500 |

+---------+-----------+--------+

======================================================================================

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

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

mysql> select Loan.Loan\_No,Cust\_Name,Amount from Loan,Borrower where Loan.Loan\_No=Borrower.Loan\_No and Branch\_Name='Gangapur Road' order by Cust\_Name asc;

+---------+-----------+--------+

| Loan\_No | Cust\_Name | Amount |

+---------+-----------+--------+

| 1 | Atharva | 1000 |

| 4 | Harsha | 10000 |

| 6 | Ojaswini | 2500 |

+---------+-----------+--------+

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

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

mysql> select Cust\_Name from Borrower union select Cust\_Name from Depositor;

+------------+

| Cust\_Name |

+------------+

| Ankita |

| Atharva |

| Harsha |

| Ojaswini |

| Sharvari |

| Shreya |

| Durgesh |

| Uddesh |

| Varun |

| Yashashree |

+------------+

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

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

mysql> select Cust\_Name from Borrower where Cust\_Name in(select Cust\_Name from Depositor);

+-----------+

| Cust\_Name |

+-----------+

| Ankita |

| Atharva |

| Harsha |

| Ojaswini |

| Sharvari |

| Shreya |

+-----------+

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

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

mysql> select Cust\_Name from Depositor where Cust\_Name not in(select Cust\_Name from Borrower);

+------------+

| Cust\_Name |

+------------+

| Durgesh |

| Uddesh |

| Varun |

| Yashashree |

+------------+

======================================================================================8. Find average account balance at Shivaji nagar branch.

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

mysql> select Branch\_Name,avg(Balance) from Account where Branch\_Name='Gangapur Road';

+---------------+-------------------+

| Branch\_Name | avg(Balance) |

+---------------+-------------------+

| Gangapur Road | 6988.067230224609 |

+---------------+-------------------+

======================================================================================9. Find the average account balance at each branch

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

mysql> select Branch\_Name,avg(Balance) from Account group by Branch\_Name;

+-----------------+--------------------+

| Branch\_Name | avg(Balance) |

+-----------------+--------------------+

| Gangapur Road | 6988.067230224609 |

| Indira Nagar | 560.5499877929688 |

| Ravivar Karanja | 12010.550384521484 |

| Sharanpur Road | 4143.8832600911455 |

+-----------------+--------------------+

======================================================================================10. Find no. of depositors at each branch.

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

mysql> select Branch\_Name,count(Account.Acc\_No) from Depositor,Account where Depositor.Acc\_No=Account.Acc\_No group by Branch\_Name;

+-----------------+-----------------------+

| Branch\_Name | count(Account.Acc\_No) |

+-----------------+-----------------------+

| Gangapur Road | 4 |

| Indira Nagar | 1 |

| Ravivar Karanja | 2 |

| Sharanpur Road | 3 |

+-----------------+-----------------------+

======================================================================================11. Find the branches where average account balance > 1000.

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

mysql> select Branch\_Name,avg(Balance) from Account group by Branch\_Name having avg(Balance)>1000.0;

+-----------------+--------------------+

| Branch\_Name | avg(Balance) |

+-----------------+--------------------+

| Gangapur Road | 6988.067230224609 |

| Ravivar Karanja | 12010.550384521484 |

| Sharanpur Road | 4143.8832600911455 |

+-----------------+--------------------+

======================================================================================12. Find number of tuples in customer relation.

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

mysql> select count(\*) from Customer;

+----------+

| count(\*) |

+----------+

| 10 |

+----------+

======================================================================================13. Calculate total loan amount given by bank.

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

mysql> select sum(Amount) from Loan;

+-------------+

| sum(Amount) |

+-------------+

| 23300 |

+-------------+

======================================================================================14. Delete all loans with loan amount between 1300 and 1500.

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

mysql> delete from Loan where Amount>900 and Amount<2500;

mysql> select\* from Branch;

+-----------------+-------------+--------+

| Branch\_Name | Branch\_City | Assets |

+-----------------+-------------+--------+

| College Road | Nasik | aaa |

| Gangapur Road | Nasik | aaa |

| Indira Nagar | Nasik | aaa |

| Nasik Road | Nasik | aaa |

| Ravivar Karanja | Nasik | aaa |

| Sharanpur Road | Nasik | aaa |

+-----------------+-------------+--------+

mysql> select\* from Account;

+--------+-----------------+---------+

| Acc\_No | Branch\_Name | Balance |

+--------+-----------------+---------+

| 1001 | Gangapur Road | 1010.55 |

| 1004 | Sharanpur Road | 310.55 |

| 1022 | Gangapur Road | 2400.88 |

| 1043 | Gangapur Road | 23780.3 |

| 1057 | Ravivar Karanja | 23260.6 |

| 1060 | Sharanpur Road | 560.55 |

| 1066 | Sharanpur Road | 11560.5 |

| 1290 | Ravivar Karanja | 760.55 |

| 1330 | Indira Nagar | 560.55 |

| 1400 | Gangapur Road | 760.55 |

+--------+-----------------+---------+

mysql> select\* from Customer;

+------------+---------------+-----------+

| Cust\_Name | Cust\_Street | Cust\_City |

+------------+---------------+-----------+

| Ankita | Deolali Camp | Nasik |

| Atharva | Gangapur Road | Nasik |

| Durgesh | Pavan Nagar | Nasik |

| Harsha | Canada Corner | Nasik |

| Ojaswini | College Road | Nasik |

| Sharvari | Golf club | Nasik |

| Shreya | Indira Nagar | Nasik |

| Uddesh | Amrutdham | Nasik |

| Varun | Trimbak Road | Nasik |

| Yashashree | Rane Nagar | Nasik |

+------------+---------------+-----------+

mysql> select\* from Depositor;

+------------+--------+

| Cust\_Name | Acc\_No |

+------------+--------+

| Atharva | 1001 |

| Uddesh | 1004 |

| Sharvari | 1060 |

| Ankita | 1290 |

| Yashashree | 1330 |

| Ojaswini | 1400 |

| Durgesh | 1022 |

| Harsha | 1043 |

| Shreya | 1057 |

| Varun | 1066 |

+------------+--------+

mysql> select\* from Loan;

+---------+-----------------+--------+

| Loan\_No | Branch\_Name | Amount |

+---------+-----------------+--------+

| 3 | Ravivar Karanja | 2800 |

| 4 | Gangapur Road | 10000 |

| 5 | Ravivar Karanja | 5000 |

| 6 | Gangapur Road | 2500 |

+---------+-----------------+--------+

mysql> select\* from Borrower;

+-----------+---------+

| Cust\_Name | Loan\_No |

+-----------+---------+

| Ankita | 3 |

| Harsha | 4 |

| Shreya | 5 |

| Ojaswini | 6 |

+-----------+---------+

======================================================================================15. Delete all tuples at every branch located in Sharanpur road.

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

mysql> delete from Branch where Branch\_Name='Sharanpur Road';

mysql> select\* from Branch;

+-----------------+-------------+--------+

| Branch\_Name | Branch\_City | Assets |

+-----------------+-------------+--------+

| College Road | Nasik | aaa |

| Gangapur Road | Nasik | aaa |

| Indira Nagar | Nasik | aaa |

| Nasik Road | Nasik | aaa |

| Ravivar Karanja | Nasik | aaa |

+-----------------+-------------+--------+

mysql> select\* from Account;

+--------+-----------------+---------+

| Acc\_No | Branch\_Name | Balance |

+--------+-----------------+---------+

| 1001 | Gangapur Road | 1010.55 |

| 1022 | Gangapur Road | 2400.88 |

| 1043 | Gangapur Road | 23780.3 |

| 1057 | Ravivar Karanja | 23260.6 |

| 1290 | Ravivar Karanja | 760.55 |

| 1330 | Indira Nagar | 560.55 |

| 1400 | Gangapur Road | 760.55 |

+--------+-----------------+---------+

mysql> select\* from Customer;

+------------+---------------+-----------+

| Cust\_Name | Cust\_Street | Cust\_City |

+------------+---------------+-----------+

| Ankita | Deolali Camp | Nasik |

| Atharva | Gangapur Road | Nasik |

| Durgesh | Pavan Nagar | Nasik |

| Harsha | Canada Corner | Nasik |

| Ojaswini | College Road | Nasik |

| Sharvari | Golf club | Nasik |

| Shreya | Indira Nagar | Nasik |

| Uddesh | Amrutdham | Nasik |

| Varun | Trimbak Road | Nasik |

| Yashashree | Rane Nagar | Nasik |

+------------+---------------+-----------+

mysql> select\* from Depositor;

+------------+--------+

| Cust\_Name | Acc\_No |

+------------+--------+

| Atharva | 1001 |

| Ankita | 1290 |

| Yashashree | 1330 |

| Ojaswini | 1400 |

| Durgesh | 1022 |

| Harsha | 1043 |

| Shreya | 1057 |

+------------+--------+

mysql> select\* from Loan;

+---------+-----------------+--------+

| Loan\_No | Branch\_Name | Amount |

+---------+-----------------+--------+

| 3 | Ravivar Karanja | 2800 |

| 4 | Gangapur Road | 10000 |

| 5 | Ravivar Karanja | 5000 |

| 6 | Gangapur Road | 2500 |

+---------+-----------------+--------+

mysql> select\* from Borrower;

+-----------+---------+

| Cust\_Name | Loan\_No |

+-----------+---------+

| Ankita | 3 |

| Harsha | 4 |

| Shreya | 5 |

| Ojaswini | 6 |

+-----------+---------+

====================================================================================================