

```
CREATE TABLE Account(Acc_no NUMBER(5), branch_name VARCHAR(10), balance
NUMBER(8));
```

```
insert into Account values(1001,'Akurdi',10000);
insert into Account values(1002,'Pune',11000);
insert into Account values(1003,'Dapodi',9000);
insert into Account values(1004,'Pimpri',12000);
insert into Account values(1005,'Chinchwad',14000);
insert into Account values(1006,'Khadki',25000);
```

| ACC_NO | BRANCH_NAM | BALANCE |
|--------|------------|---------|
| 1001 | Akurdi | 10000 |
| 1002 | Pune | 11000 |
| 1003 | Dapodi | 9000 |
| 1004 | Pimpri | 12000 |
| 1005 | Chinchwad | 14000 |
| 1006 | Khadki | 25000 |

```
CREATE TABLE branch(branch_name VARCHAR(10), branch_city VARCHAR(10),
assets VARCHAR(10));
```

```
insert into branch values('Akurdi','pune','abc');
insert into branch values('Pune','pune','xyz');
insert into branch values('Pimpri','Pimpri','pqr');
insert into branch values('Dapodi','Pune','lmn');
```

| BRANCH_NAM | BRANCH_CIT | ASSETS |
|------------|------------|--------|
| Akurdi | pune | abc |
| Pune | pune | xyz |
| Pimpri | Pimpri | pqr |
| Dapodi | Pune | lmn |

```
create table customer(cust_name varchar(20),cust_street varchar(20),cust_city
varchar(20));
```

```
insert into customer values('Virat','Akurdi','Pune');
insert into customer values('Rahul','Pimpri','Pune');
insert into customer values('Rutuja','Chinchwad','Chinchwad');
insert into customer values('Rohit','Khadki','Pune');
```

| CUST_NAME | CUST_STREET | CUST_CITY |
|-----------|-------------|-----------|
| Virat | Akurdi | Pune |
| Rahul | Pimpri | Pune |
| Rutuja | Chinchwad | Chinchwad |
| Rohit | Khadki | Pune |

```
create table Depositor(cust_name varchar(20),acc_no number(20));
```

```
insert into Depositor values('Virat',1001);
insert into Depositor values('Rohit',1002);
insert into Depositor values('Ruturaj',1003);
insert into Depositor values('Rahul',1004);
```

| CUST_NAME | ACC_NO |
|-----------|--------|
| Virat | 1001 |
| Rohit | 1002 |
| Ruturaj | 1003 |
| Rahul | 1004 |

```
create table Loan(loan_no varchar(20),branch_name varchar(20),amount float);
```

```
insert into Loan values('L001','Pimpri',95000.00);
insert into Loan values('L002','Akurdi',98000.00);
insert into Loan values('L003','Pune',91000.00);
insert into Loan values('L004','Dapodi',79000.00);
insert into Loan values('L005','Chinchwad',9900.00);
insert into Loan values('L006','Khadki',50000.00);
```

| LOAN_NO | BRANCH_NAME | AMOUNT |
|---------|-------------|--------|
| L001 | Pimpri | 95000 |
| L002 | Akurdi | 98000 |
| L003 | Pune | 91000 |
| L004 | Dapodi | 79000 |
| L005 | Chinchwad | 9900 |
| L006 | Khadki | 50000 |

```
create table Borrower(cust_name varchar(20),loan_no varchar(20));
```

```
insert into Borrower values('Rohit','L001');
insert into Borrower values('Virat','L002');
insert into Borrower values('Rahul','L003');
insert into Borrower values('Rutuja','L004');
```

| CUST_NAME | LOAN_NO |
|-----------|---------|
| Rohit | L001 |
| Virat | L002 |
| Rahul | L003 |
| Rutuja | L004 |

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

Ans:-

```
Select branch_name from Loan;
```

| BRANCH_NAME |
|-------------|
|-------------|

| |
|-----------|
| Pimpri |
| Akurdi |
| Pune |
| Dapodi |
| Chinchwad |
| Khadki |

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

Ans:-

Select loan_no from Loan Where amount>12000;

LOAN_NO

L001

L002

L003

L004

L006

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

Ans:-

Select b.cust_name,l.loan_no,l.amount From Borrower b,Loan l where b.loan_no = l.loan_no;

| CUST_NAME | LOAN_NO | AMOUNT |
|-----------|---------|--------|
| ----- | ----- | ----- |
| Rohit | L001 | 95000 |
| Virat | L002 | 98000 |
| Rahul | L003 | 91000 |
| Rutuja | L004 | 79000 |

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

Ans:-

select cust_name from Borrower, Loan where branch_name='Akurdi' and
Borrower.loan_no= Loan.loan_no order by cust_name;

CUST_NAME

Virat

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

Ans:-

SELECT distinct cust_name from Borrower where cust_name in(select cust_name from Depositor);

CUST_NAME

Rohit

Virat

Rahul

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

Ans:-

select cust_name from Depositor intersect select cust_name from Borrower;

CUST_NAME

Virat

Rohit

Rahul

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

Ans:-

select cust_name from Depositor minus select cust_name from Borrower;

CUST_NAME

Ruturaj

Q8. Find average account balance at Akurdi branch.

Ans:-

SELECT avg(balance)FROM Account where branch_name = 'Akurdi';

AVG(BALANCE)

10000

Q9. Find the average account balance at each branch.

Ans:-

select branch_name, avg(balance) from Account group by branch_name;

BRANCH_NAM AVG(BALANCE)

Akurdi 10000

Pune 11000

Dapodi 9000

Pimpri 12000

Chinchwad 14000

Khadki 25000

Q10. Find no. of depositors at each branch.

Ans:-

select branch_name, count(Depositor.acc_no) from Account, Depositor where
Account.acc_no= Depositor.acc_no group by branch_name;

BRANCH_NAM COUNT(DEPOSITOR.ACC_NO)

Akurdi 1

Pune 1

Dapodi 1

Pimpri 1

Q11. Find the branches where average account balance > 20000.

Ans:-

select branch_name, avg(balance) from Account group by branch_name having
avg(balance)>20000;

BRANCH_NAM AVG(BALANCE)

| ----- | ----- |
|--------|-------|
| Khadki | 25000 |

Q12. Find number of tuples in customer relation.(tuple means row)

Ans:-

select count(*) from Customer;

COUNT(*)

| ----- |
|-------|
| 4 |

Q13. Calculate total loan amount given by bank.

ANS:-

select sum(amount) from Loan;

SUM(AMOUNT)

| ----- |
|--------|
| 422900 |

Q14. Delete all loans with loan amounts between 50000 and 80000.

Ans:-

Delete loan WHERE Amount>50000 AND Amount<80000;

select * from Laon;

| LOAN_NO | BRANCH_NAME | AMOUNT |
|---------|-------------|--------|
| ----- | ----- | ----- |
| L001 | Pimpri | 95000 |
| L002 | Akurdi | 98000 |
| L003 | Pune | 91000 |
| L005 | Chinchwad | 9900 |
| L006 | Khadki | 50000 |

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

Ans:-

delete from Branch where branch_name='Pune';

Select * from Branch;

BRANCH_NAM BRANCH_CIT ASSETS

| ----- | ----- | ----- |
|--------|--------|-------|
| Akurdi | pune | abc |
| Pimpri | Pimpri | pqr |
| Dapodi | Pune | lmn |

Q16. Create synonyms for customer tables as cust.

Ans:-

create synonym cust for Customer;

Synonym created.

Q.17. Create sequence roll_seq and use in student table for roll_no column.

Ans:-

create table Student08(roll_no number, name char(20));

Table created.

create sequence stusq increment by 1 start with 1;

Sequence created.
