Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun 2017.

SELECT CARD\_NO FROM
BOOK\_LENDING
WHERE DATE\_OUT BETWEEN "01-JAN-2017, AND "01-JUL-2017,
GROUP BY CARD\_NO
HAVING COUNT (\*)>3;

2. Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation.

DELETE FROM BOOK WHERE BOOK ID=3;

3. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query.

CREATE VIEW V\_PUBLICATION AS SELECT PUB\_YEAR FROM BOOK;

Create a view of all books and its number of copies that are currently available in the Library.

CREATE VIEW V\_BOOKS AS
SELECT B.BOOK\_ID, B.TITLE, C.NO\_OF\_COPIES
FROM BOOK B, BOOK\_COPIES C, LIBRARY\_BRANCH L
WHERE B.BOOK\_ID=C.BOOK\_ID
AND C.BRANCH\_ID=L.BRANCH\_ID;

1. Count the customers with grades above Bangalore's average.

SELECT GRADE, COUNT (DISTINCT CUSTOMER ID) FROM

CUSTOMER1

GROUP BY GRADE

HAVING GRADE > (SELECT AVG(GRADE)

FROM CUSTOMER1

WHERE CITY='BANGALORE');

2. Find the name and numbers of all salesmen who had more than one customer.

SELECT SALESMAN\_ID, NAME FROM

SALESMAN A

WHERE 1 < (SELECT COUNT (\*) FROM

CUSTOMER1

WHERE SALESMAN ID=A.SALESMAN ID);

3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.)

 ${\tt SELECT\ SALESMAN\_ID,\ NAME,\ CUST\_NAME,\ COMMISSION\ FROM}$ 

SALESMAN, CUSTOMER1

WHERE SALESMAN.CITY = CUSTOMER1.CITY

UNION

SELECT SALESMAN ID, NAME, 'NO MATCH', COMMISSION

FROM SALESMAN

WHERE NOT CITY = ANY

(SELECT CITY

FROM CUSTOMER1)

ORDER BY 2 DESC;

Create a view that finds the salesman who has the customer with the highest order of a day.

CREATE VIEW ELITSALESMAN AS

SELECT B.ORD DATE, A.SALESMAN ID, A.NAME FROM

SALESMAN A, ORDERS B

WHERE A.SALESMAN ID = B.SALESMAN ID

AND B.PURCHASE AMT=(SELECT MAX (PURCHASE AMT)

FROM ORDERS C

WHERE C.ORD DATE = B.ORD DATE);

Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.

Use ON DELETE CASCADE at the end of foreign key definitions while creating child table orders and then execute the following:

Use ON DELETE SET NULL at the end of foreign key definitions while creating child table customers and then executes the following:

DELETE FROM SALESMAN WHERE

SALESMAN ID=1000;

1. List the titles of all movies directed by 'Hitchcock'.

```
SELECT MOV_TITLE FROM
MOVIES
WHERE DIR_ID IN (SELECT DIR_ID
FROM DIRECTOR
WHERE DIR_NAME = _HITCHCOCK,,);
```

2. Find the movie names where one or more actors acted in two or more movies.

```
SELECT MOV_TITLE

FROM MOVIES M, MOVIE_CAST MV

WHERE M.MOV_ID=MV.MOV_ID AND ACT_ID IN (SELECT ACT_ID

FROM MOVIE_CAST GROUP BY ACT_ID HAVING COUNT (ACT_ID)>1)

GROUP BY MOV_TITLE HAVING

COUNT (*)>1;
```

List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

```
SELECT ACT_NAME, MOV_TITLE, MOV_YEAR
FROM ACTOR A JOIN
MOVIE_CAST C
ON A.ACT_ID=C.ACT_ID JOIN
MOVIES M
ON C.MOV_ID=M.MOV_ID
WHERE M.MOV_YEAR NOT BETWEEN 2000 AND 2015; OR

SELECT A.ACT_NAME, A.ACT_NAME, C.MOV_TITLE, C.MOV_YEAR FROM ACTOR A, MOVIE_CAST B, MOVIES C
WHERE A.ACT_ID=B.ACT_ID AND
B.MOV_ID=C.MOV_ID
AND C.MOV_YEAR NOT BETWEEN 2000 AND 2015;
```

4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

```
SELECT MOV_TITLE, MAX (REV_STARS) FROM MOVIES
INNER JOIN RATING USING (MOV_ID) GROUP BY MOV_TITLE
HAVING MAX (REV_STARS)>0 ORDER
BY MOV_TITLE;
```

5. Update rating of all movies directed by 'Steven Spielberg' to 5

```
KL

UPDATE RATING SET

REV_STARS=5

WHERE MOV_ID IN (SELECT MOV_ID FROM MOVIES

WHERE DIR_ID IN (SELECT DIR_ID

FROM DIRECTOR

WHERE DIR_NAME = _STEVEN SPIELBERG,,));
```

1. List all the student details studying in fourth semester 'C' section.

SELECT S.\*, SS.SEM, SS.SEC

FROM STUDENT S, SEMSEC SS, CLASS C

WHERE S.USN = C.USN AND

SS.SSID = C.SSID AND

SS.SEM = 4 AND

2. Compute the total number of male and female students in each semester and in each section.

SELECT SS.SEM, SS.SEC, S.GENDER, COUNT (S.GENDER) AS COUNT FROM

STUDENT S, SEMSEC SS, CLASS C

WHERES.USN = C.USN AND

SS.SSID = C.SSID

GROUP BY SS.SEM, SS.SEC, S.GENDER

ORDER BY SEM;

3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects.

CREATE VIEW STU\_TEST1\_MARKS\_VIEW AS

SELECT TEST1, SUBCODE

FROM IAMARKS

WHERE USN = '1RN13CS091';