* **/\*where clause \*/**

/\* displaying seat details for all trains from <source> to <destination> on <date> \*/

select total seats, available seats from train\_info where departure\_date =”” and source="" and destination ="" ;

* **/\*update statement \*/**

/\* Updating number of available seats \*/

UPDATE train\_status

SET available=10

WHERE train\_id=1234 AND date="17-02-2020";

* **/\*count of female passengers\*/**

SELECT count(passengerID) FROM passenger WHERE gender = 'F';

* **/\*Group By \*/**

/\* Displaying Trains having more thn 2 route points \*/

SELECT train\_name FROM train T

JOIN

route R ON r.train\_id = t.tain\_id

WHERE COUNT(route\_point)>2

GROUP BY

t.tain\_id ;

* **/\* Nested Queries \*/**

/\* Displaying Train Numbers going through a specific Route Point \*/

SELECT train\_number FROM train\_info

WHERE train\_info.train\_id IN (SELECT route.train\_id

FROM route

WHERE route.route\_point="");

* **/\* Order By and Join \*/**

/\* Displaying name, ticket\_id, price \*/

SELECT name, ticket\_id, price FROM passenger p

JOIN ticket t

ON p.ticket\_id = t.ticket\_id

ORDER BY price DESC;

* **/\*Complex Join\*/**

/\* Displaying name, route, train details for Female passengers \*/

SELECT name, route\_point, train\_name FROM passenger

JOIN train t

ON t.tain\_id = p.train\_id

JOIN root r

ON t.train\_id = r.train\_id

WHERE gender="F";