**EXPERIMENT 8**

**practice queries using Aggregate functions (COUNT, SUM, AVG, and MAX and MIN), GROUP BY, HAVING and Creation and dropping of Views.**

**1. Write a Query to display the Information present in the Passenger and cancellation tables. Hint: Use UNION Operator.**

**2. Display the number of days in a week on which the 9W01 bus is available.**

**3. Find number of tickets booked for each PNR\_no using GROUP BY CLAUSE. Hint: Use GROUP BY on PNR\_No.**

**4. Find the distinct PNR numbers that are present.**

**5. Find the number of tickets booked by a passenger where the number of seats is greater than 1. Hint: Use GROUP BY, WHERE and HAVING CLAUSES.**

**6. Find the total number of cancelled seats.**

Query:

**4.**

CREATE TABLE Bus(bus\_no VARCHAR(20), Sourc VARCHAR(20), destination VARCHAR(20), bcolour VARCHAR(20));

INSERT INTO Bus VALUES('TS121','Chennai','Banglore','yellow');

INSERT INTO Bus VALUES('TS122','Hyderabad','Khammam','red');

INSERT INTO Bus VALUES('TS123','Amaravati','Rajahmandry','blue');

INSERT INTO Bus VALUES('TS124','Kadapa','Guntur','blue');

INSERT INTO Bus VALUES('TS125','Vijayawada','Kurnool','green');

SELECT \* FROM Bus;

DELETE FROM Bus B WHERE B.Sourc = 'Hyderabad';

SELECT \* FROM Bus;

CREATE TABLE Passenger(P\_name VARCHAR(20), P\_id INT, Gender VARCHAR(20), age INT, P\_destination VARCHAR(20));

INSERT INTO Passenger VALUES('Riyansh', 1276, 'Male', 38, 'Hyderabad');

INSERT INTO Passenger VALUES('Rishabh', 1291, 'Male', 40, 'Guntur');

INSERT INTO Passenger VALUES('Keerthi', 1290, 'Female', 56, 'Hyderabad');

INSERT INTO Passenger VALUES('Tejaswini', 1243, 'Female', 67, 'Hyderabad');

INSERT INTO Passenger VALUES('Revathi', 1364, 'Female', 42, 'Tirupati');

INSERT INTO Passenger VALUES('Aadharsh', 1274, 'Male', 22, 'Amaravati');

INSERT INTO Passenger VALUES('Praneetha', 1323, 'Female', 20, 'Kurnool');

INSERT INTO Passenger VALUES('Anushri', 1234, 'Female', 43, 'Amaravati');

INSERT INTO Passenger VALUES('Raghu', 1284, 'Male', 47, 'Banglore');

INSERT INTO Passenger VALUES("Vaishnavi", 1265, 'Female', 18, 'Banglore');

SELECT \* FROM Passenger;

DELETE FROM Passenger P WHERE P.age=50;

SELECT \* FROM Passenger;

CREATE TABLE Ticket(T\_id INT, T\_cost INT, destination VARCHAR(20), seatno VARCHAR(20), P\_id INT);

INSERT INTO Ticket VALUES(1211, 240, 'Vizag', 'L12', 1234);

INSERT INTO Ticket VALUES(1211, 290, 'Hyderabad', 'L67', 1276);

INSERT INTO Ticket VALUES(1211, 200, 'Vizag', 'L42', 1291);

INSERT INTO Ticket VALUES(1211, 700, 'Hyderabad', 'L52', 1290);

INSERT INTO Ticket VALUES(1242, 240, 'Hyderabad', 'L53', 1243);

INSERT INTO Ticket VALUES(1242, 570, 'Hyderabad', 'R19', 1235);

INSERT INTO Ticket VALUES(1242, 830, 'Banglore', 'L21', 1238);

INSERT INTO Ticket VALUES(1242, 700, 'Karnataka', 'L17', 1267);

INSERT INTO Ticket VALUES(1215, 100, 'Banglore', 'R23', 1265);

INSERT INTO Ticket VALUES(1215, 100, 'Siddipet', 'R45', 1265);

SELECT \* FROM Ticket;

DELETE FROM Ticket T WHERE T\_id = 1212;

SELECT \* FROM Ticket;

ALTER TABLE Ticket ADD COLUMN seats INT;

SELECT \* FROM Ticket;

UPDATE Ticket T SET T.T\_cost = T\_cost + 10;

SELECT \* FROM Ticket;

SELECT DISTINCT P.P\_id FROM Passenger P;

SELECT P.P\_name FROM Passenger P WHERE P.gender = "male";

SELECT T.T\_id, P.P\_name FROM Passenger P, Ticket T WHERE T.P\_id = P.P\_id;

SELECT T.T\_id FROM Passenger P, Ticket T WHERE T.T\_id = P.P\_id and P.P\_name LIKE "r%h";

SELECT P.P\_name FROM Passenger P WHERE P.age >= 30 AND P.age <= 45;

SELECT P.P\_name FROM Passenger P, Ticket T WHERE P.P\_name LIKE "A%";

SELECT P.P\_name FROM Passenger P ORDER BY P.P\_name ASC;

CREATE TABLE Cancellation(C\_id INT, P\_id INT, seat\_no VARCHAR(20), contact BIGINT, C\_name VARCHAR(20));

INSERT INTO Cancellation VALUES(1, 1276, "L67", 958607849, "Riyansh");

INSERT INTO Cancellation VALUES(2, 1291, "L42", 567485960, "Rishabh");

INSERT INTO Cancellation VALUES(3, 1290, "L52", 475638596, "Keerthi");

SELECT \* FROM Passenger P UNION SELECT \* FROM Cancellation C;

ALTER TABLE Bus ADD COLUMN N\_Days INT;

SELECT \* FROM Bus B;

UPDATE Bus B SET N\_Days = 5 WHERE bus\_no = "TS121";

UPDATE Bus B SET N\_Days = 3 WHERE bus\_no = "TS123";

UPDATE Bus B SET N\_Days = 1 WHERE bus\_no = "TS124";

UPDATE Bus B SET N\_Days = 4 WHERE bus\_no = "TS125" ;

INSERT INTO Bus VALUES('9W01', "Hyderabad", "Gujarat", "orange", 7);

SELECT \* FROM Bus;

SELECT P.P\_id, COUNT(T.T\_id) FROM Passenger P, Ticket T WHERE P.P\_id = T.P\_id GROUP BY P.P\_id ;

SELECT DISTINCT P.P\_id FROM Passenger P;

SELECT P.P\_id, COUNT(T.T\_id) FROM Passenger P, Ticket T WHERE P.P\_id = T.P\_id GROUP BY P.P\_id HAVING COUNT(T.T\_id) > 1;

SELECT COUNT(\*) FROM Cancellation C;

OUTPUT\_SCREENSHOT:

