DBMS - Mini Project

Airport Management

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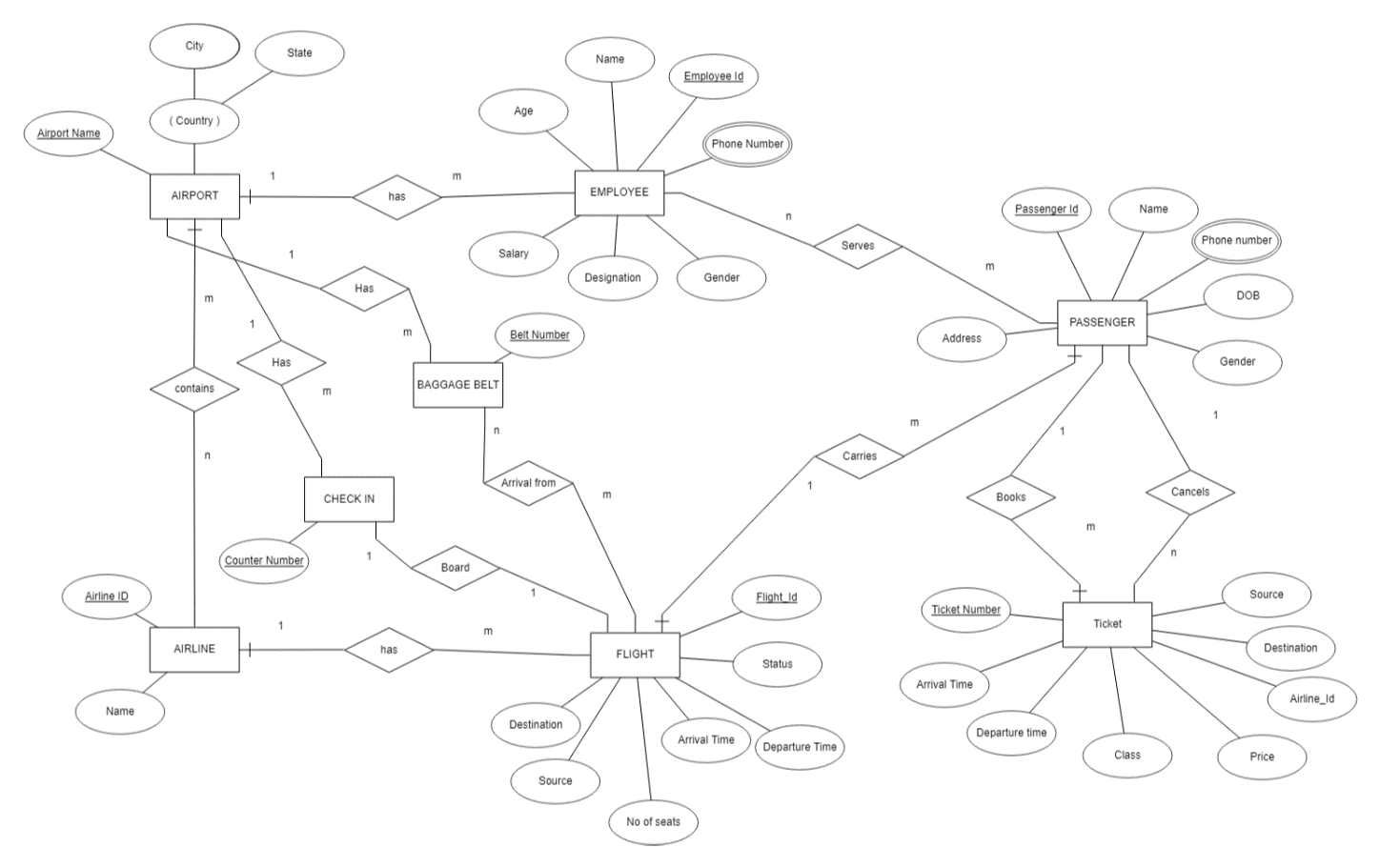
# Short Description and Scope of the Project

Imagine an airport. What are the first things that come to mind? A cavernous terminal, information displays, long queues, baggage claim conveyors, arriving aircraft waiting to be fueled and catered for imminent departure. Airports have a tight flight schedule with its associated staff management, passenger processing, attention to minute detail, and much more. Proper airport management practices speed up the processes and improves the quality of service.

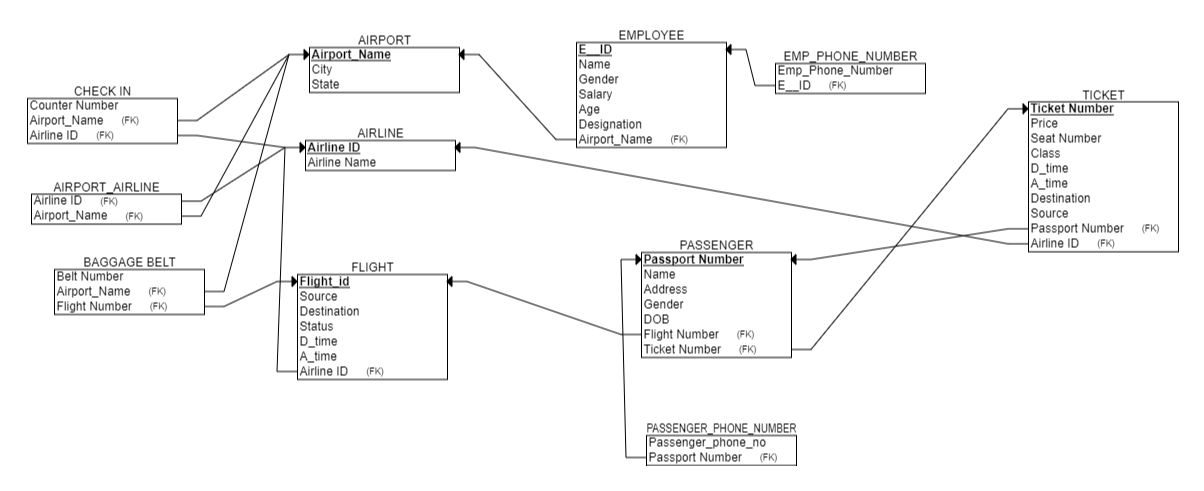
Airport management system is a database project implemented in MySQL. It primarily deals with the management of the airport, airlines, passengers, employees, ticket and flights for various airports. It is designed as per the airport management needs. There are a total of 11 tables each with a minimum of 5 records.

The system provides a broad overview of underlying operational factors that influence the airport management.

**ER Diagram**



# Relational Schema



**DDL statements - Building the database**

CREATE TABLE `airport`(

    `airport\_name` VARCHAR(40) NOT NULL,

    `city` VARCHAR(20) DEFAULT NULL,

    `state` VARCHAR(20) DEFAULT NULL

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `airline`(

    `airline\_id` INT NOT NULL,

    `airline\_name` VARCHAR(20) DEFAULT NULL

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `airport\_airline`(

    `airline\_id` INT NOT NULL,

    `airport\_name` VARCHAR(40) DEFAULT NULL,

    KEY(`airline\_id`,`airport\_name`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `flight`(

    `flight\_id` varchar(5)  NOT NULL,

    `source` VARCHAR(20) DEFAULT NULL,

    `destination` VARCHAR(20) DEFAULT NULL,

    `status` VARCHAR(20) DEFAULT NULL,

    `d\_time` TIME DEFAULT NULL,

    `a\_time` TIME DEFAULT NULL,

    `airline\_id` INT DEFAULT NULL,

    `tot\_seat` INT DEFAULT NULL

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `employee`(

    `e\_id` VARCHAR(5) NOT NULL,

    `name` VARCHAR(20) DEFAULT NULL,

    `gender` char(1) DEFAULT NULL,

    `salary` INT DEFAULT NULL,

    `age` INT DEFAULT NULL,

    `designation` VARCHAR(20) DEFAULT NULL,

    `airport\_name` VARCHAR(40) DEFAULT NULL

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `emp\_phone\_no`(

    `e\_id` VARCHAR(5) NOT NULL,

    `phone\_no` VARCHAR(11) DEFAULT NULL,

    KEY(`e\_id`,`phone\_no`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `passenger`(

    `passport\_no` VARCHAR(20) NOT NULL,

    `name` VARCHAR(20) NOT NULL,

    `address` VARCHAR(20) DEFAULT NULL,

    `gender` CHAR(1) DEFAULT NULL,

    `dob` DATE DEFAULT NULL,

    `flight\_id` VARCHAR(5) DEFAULT NULL,

    `ticket\_no` VARCHAR(20) DEFAULT NULL,

    `bookedby\_name` VARCHAR(20) DEFAULT NULL,

    PRIMARY KEY(`passport\_no`,`ticket\_no`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `passenger\_phone\_no`(

    `passport\_no` VARCHAR(20),

    `phone\_no` VARCHAR(11),

    KEY(`passport\_no`,`phone\_no`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `ticket`(

    `ticket\_no` VARCHAR(5) NOT NULL,

    `airline\_id` INT DEFAULT NULL,

    `price` INT DEFAULT NULL,

    `seat\_no` VARCHAR(5) DEFAULT NULL,

    `class` VARCHAR(20) DEFAULT NULL,

    `d\_time` TIME DEFAULT NULL,

    `a\_time` TIME DEFAULT NULL,

    `source` VARCHAR(20) DEFAULT NULL,

    `destination` VARCHAR(20) DEFAULT NULL,

    `passport\_no` VARCHAR(20) DEFAULT NULL,

    PRIMARY KEY(`ticket\_no`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `check\_in`(

    `counter\_no` VARCHAR(5) NOT NULL,

    `airport\_name` VARCHAR(40) DEFAULT NULL,

    `airline\_id` INT DEFAULT NULL,

    KEY(`counter\_no`,`airport\_name`,`airline\_id`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `baggage\_belt`(

    `belt\_no` VARCHAR(5) NOT NULL,

    `airport\_name` VARCHAR(40) DEFAULT NULL,

    `flight\_id` VARCHAR(5)  DEFAULT NULL,

    KEY(`belt\_no`,`airport\_name`,`flight\_id`)

)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

# Populating the Database

INSERT INTO `airport`(`airport\_name`,`city`,`state`) VALUES

('Chattrapati Shivaji Airport', 'Mumbai', 'Maharashtra'),

('Indira Gandhi Airport', 'Delhi', 'Delhi'),

('Netaji Subhash Chandra Bose Airport', 'Kolkata','West Bengal'),

('Kempegowda Airport', 'Bangalore','Karnataka'),

('Madras Airport', 'Chennai','Tamil Nadu');

INSERT INTO `airline`(`airline\_id`,`airline\_name`) VALUES

(111,'Airlines1'),

(112,'Airlines2');

INSERT INTO `airport\_airline`(`airline\_id`,`airport\_name`) VALUES

(111,'Chattrapati Shivaji Airport'),

(112,'Chattrapati Shivaji Airport'),

(111,'Indira Gandhi Airport'),

(112,'Indira Gandhi Airport'),

(111,'Kempegowda Airport'),

(112,'Kempegowda Airport');

INSERT INTO `flight` (`flight\_id`,`source`,`destination`,`status`,`d\_time`,`a\_time`,`airline\_id`,`tot\_seat` )VALUES

('F1','Mumbai','Bangalore', 'On Time','14:30:00','15:00:00', 111,200 ),

('F2','Bangalore', 'Mumbai', 'Delayed','17:30:00','18:00:00',112,250 ),

('F3','Mumbai', 'Delhi','On Time', '01:00:00', '03:30:00',111,200),

('F4','Delhi', 'Bangalore','On Time', '07:00:00', '10:00:00',112,250);

INSERT INTO `employee`(`e\_id`,`name`,`gender`,`salary`,`age`,`designation`,`airport\_name`) VALUES

('E1','Parth','M','40000','24','Passenger assistant','Chattrapati Shivaji Airport'),

('E2','Ramesh','M','30000','20','Airline baggage handler','Chattrapati Shivaji Airport'),

('E3','Shikha','F','35000','19','Passenger assistant','Kempegowda Airport'),

('E4','Raj','M','25000','23','Airline baggage handler','Kempegowda Airport'),

('E5','Ram','M','20000','26','Passenger assistant','Indira Gandhi Airport'),

('E6','Rani','F','22000','30','Passenger assistant','Indira Gandhi Airport'),

('E7','Priya','F','29000','29','Passenger assistant','Kempegowda Airport'),

('E8','Anjali','F','30000','30','Passenger assistant','Kempegowda Airport');

INSERT INTO `emp\_phone\_no`(`e\_id`,`phone\_no`)VALUES

('E1','9123456789'),

('E2','9876543219'),

('E3','9111111111'),

('E4','9444444444'),

('E5','9555555555'),

('E6','9666666666');

INSERT INTO `passenger`(`passport\_no`,`name`,`address`,`gender`,`dob`,`flight\_id`,`ticket\_no`,`bookedby\_name`)VALUES

('P1','Parth','A22','M','2002-03-28','F1','T1','Parth'),

('P2', 'Tushar', 'B22', 'M','2001-08-12', 'F1', 'T2','Tushar'),

('P3', 'Raj', 'D45', 'M','1972-06-13','F1', 'T3','Raj'),

('P4','Manmohan','A23','M','1989-04-14','F2','T4','Manmohan'),

('P5', 'Ajit', 'B23', 'M','1990-04-14', 'F2', 'T5','Ajit'),

('P6', 'Nirmala', 'D46', 'F','1991-04-08', 'F2', 'T6','Nirmala'),

('P7','Smriti','A27','F','1971-01-01','F3','T7','Smriti'),

('P8', 'Kiran', 'B28', 'F','2000-10-09', 'F3', 'T8','Kiran'),

('P9', 'Rahul', 'D44', 'M','1996-12-12', 'F3', 'T9','Rahul'),

('P10','Sheela','A21','F','1996-12-13','F4','T10','Sheela'),

('P11', 'Arun', 'B25', 'M','1997-12-14', 'F4', 'T11','Arun'),

('P12', 'Suma', 'D46', 'F','1998-12-15','F4', 'T12','Suma'),

('P13','Meghana','A27','F','1971-01-01','F4','T13','Smriti'),

('P14', 'Ishita', 'B9', 'F','2000-10-09', 'F4', 'T14','Kiran'),

('P15','Sailaja','A4','F','1971-01-01','F4','T15','Smriti'),

('P16', 'Hita', 'B28', 'F','2000-10-09', 'F4', 'T16','Kiran'),

('P7','Smriti','A33','F','1971-01-01','F4','T17','Smriti'),

('P8', 'Kiran', 'B34', 'F','2000-10-09', 'F4', 'T18','Kiran');

INSERT INTO `passenger\_phone\_no`(`passport\_no`,`phone\_no`)VALUES

('P1','9123456789'),

('P2','9876543219'),

('P3','9111111111'),

('P4','9444444444'),

('P5','9555555555'),

('P6','9666666666'),

('P7','9777777777'),

('P8','9888888888'),

('P9','9999999999'),

('P10','9110011111'),

('P11','9123456788'),

('P12','9121212121');

INSERT INTO `ticket`(`ticket\_no`,`airline\_id`,`price`,`seat\_no`,`class`,`d\_time`,`a\_time`,`source`,`destination`,`passport\_no`)VALUES

('T1', 111, 6000, 'A-2' , 'Business Class', '15:00:00', '14:30:00','Mumbai','Bangalore','P1'),

('T2', 111, 6000, 'B-3' , 'Economy Class', '15:00:00', '14:30:00','Mumbai','Bangalore','P2'),

('T3', 111, 6000, 'B-1' , 'Economy Class', '15:00:00', '14:30:00','Mumbai','Bangalore','P3'),

('T4', 112, 7000, 'A-1' , 'First Class', '18:00:00', '17:30:00','Bangalore','Mumbai','P4'),

('T5', 112, 7000, 'B-12' , 'Economy Class', '18:00:00', '17:30:00','Bangalore','Mumbai','P5'),

('T6', 112, 7000, 'B-4' , 'Economy Class', '18:00:00', '17:30:00','Bangalore','Mumbai','P6'),

('T7', 111, 8000, 'A-4' , 'First Class', '01:00:00', '03:30:00','Mumbai','Delhi','P7'),

('T8', 111, 8000, 'B-14' , 'Economy Class', '01:00:00', '03:30:00','Mumbai','Delhi','P8'),

('T9', 111, 8000, 'B-3' , 'Economy Class', '01:00:00', '03:30:00','Mumbai','Delhi','P9'),

('T10', 112, 7500, 'A-8' , 'First Class', '07:00:00', '10:00:00','Delhi','Bangalore','P10'),

('T11', 112, 7500, 'B-8' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P11'),

('T12', 112, 7500, 'B-11' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P12'),

('T13', 112, 7500, 'B-13' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P13'),

('T14', 112, 7500, 'B-21' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P14'),

('T15', 112, 7500, 'B-30' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P15'),

('T16', 112, 7500, 'B-6' , 'Economy Class', '07:00:00', '10:00:00','Delhi','Bangalore','P16'),

('T17', 112, 8000, 'A-5' , 'First Class', '01:00:00', '03:30:00','Delhi','Bangalore','P7'),

('T18', 112, 8000, 'B-15' , 'Economy Class', '01:00:00', '03:30:00','Delhi','Bangalore','P8');

INSERT INTO `check\_in`(`counter\_no`,`airport\_name`, `airline\_id`) VALUES

('C1','Chattrapati Shivaji Airport',111),

('C2','Chattrapati Shivaji Airport',111),

('C3','Chattrapati Shivaji Airport',112),

('C4','Chattrapati Shivaji Airport',112),

('C1','Indira Gandhi Airport',111),

('C2','Indira Gandhi Airport',111),

('C3','Indira Gandhi Airport',112),

('C4','Indira Gandhi Airport',112),

('C1','Kempegowda Airport',111),

('C2','Kempegowda Airport',111),

('C3','Kempegowda Airport',112),

('C4','Kempegowda Airport',112);

INSERT INTO `baggage\_belt`(`belt\_no`,`airport\_name`,`flight\_id`)VALUES

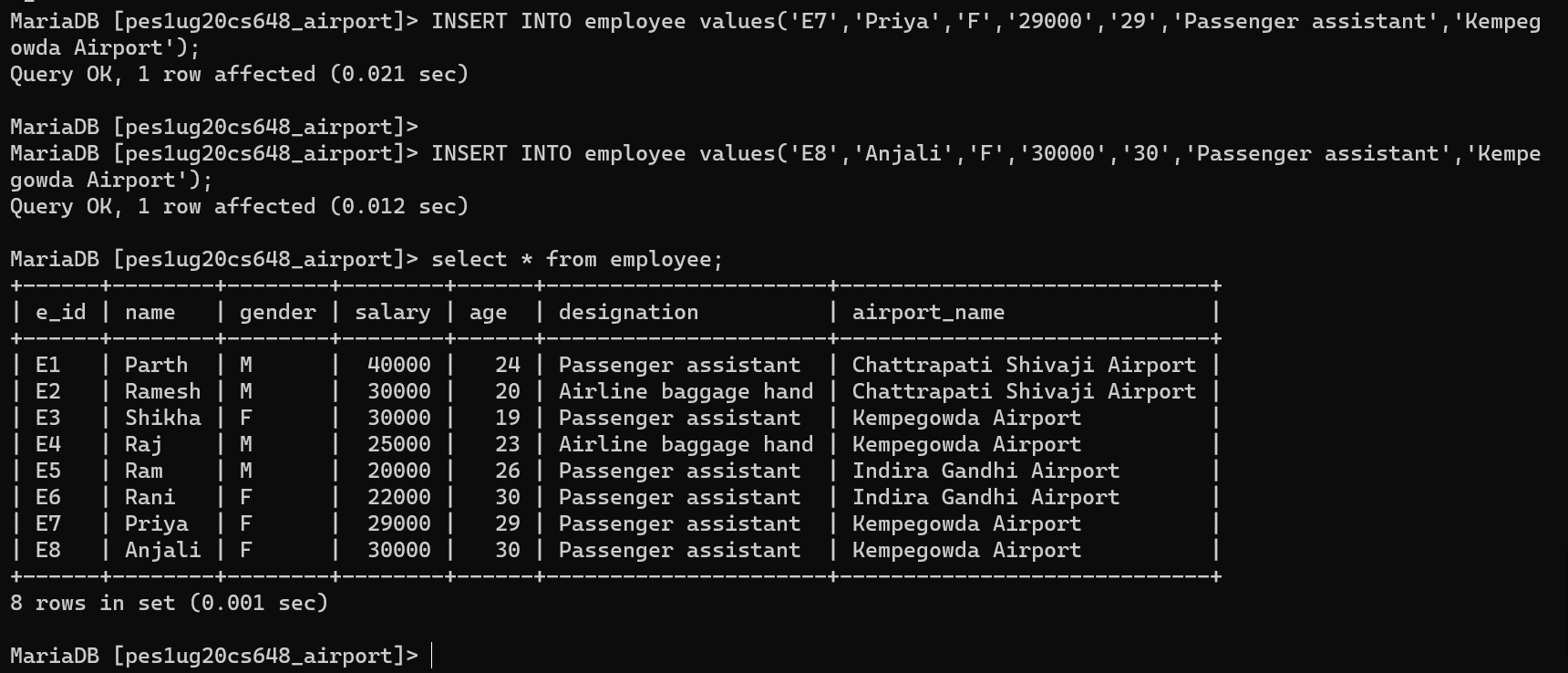
('B1','Chattrapati Shivaji Airport','F2'),

('B1','Indira Gandhi Airport','F3'),

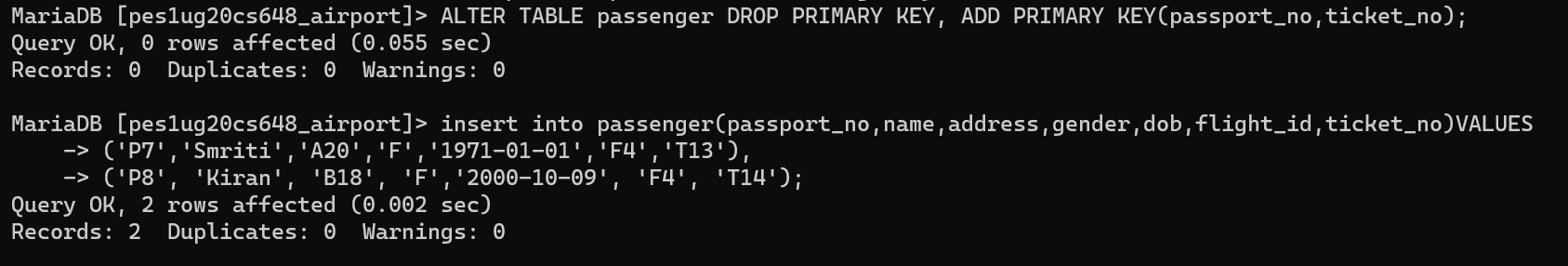
('B1','Kempegowda Airport','F1'),

('B2','Kempegowda Airport','F4');

Inserting 1 row at a time into employee table



Inserting few more rows into passenger and alter primary key of table.



**Adding Constraints**

ALTER TABLE `airport`

  ADD PRIMARY KEY (`airport\_name`);

ALTER TABLE `airline`

    ADD PRIMARY KEY (`airline\_id`);

ALTER TABLE `airport\_airline`

    ADD CONSTRAINT `airlinefk1` FOREIGN KEY (`airline\_id`) REFERENCES `airline`(`airline\_id`),

    ADD CONSTRAINT `airportfk1` FOREIGN KEY (`airport\_name`) REFERENCES `airport`(`airport\_name`);

ALTER TABLE `flight`

    ADD PRIMARY KEY(`flight\_id`),

    ADD CONSTRAINT `airlinefk2` FOREIGN KEY (`airline\_id`) REFERENCES `airline`(`airline\_id`);

ALTER TABLE `employee`

    ADD PRIMARY KEY(`e\_id`),

    ADD CONSTRAINT `airportfk3` FOREIGN KEY (`airport\_name`) REFERENCES `airport`(`airport\_name`);

ALTER TABLE `emp\_phone\_no`

    ADD CONSTRAINT `empfk1` FOREIGN KEY (`e\_id`) REFERENCES `employee`(`e\_id`);

ALTER TABLE `passenger`

    ADD CONSTRAINT `flightfk1` FOREIGN KEY (`flight\_id`) REFERENCES   `flight`(`flight\_id`),

    ADD CONSTRAINT `ticketfk1` FOREIGN KEY (`ticket\_no`) REFERENCES   `ticket`(`ticket\_no`);

ALTER TABLE `passenger\_phone\_no`

    ADD CONSTRAINT `passengerfk1` FOREIGN KEY (`passport\_no`) REFERENCES `passenger`(`passport\_no`);

ALTER TABLE `ticket`

    ADD CONSTRAINT `passengerfk2` FOREIGN KEY (`passport\_no`) REFERENCES `passenger`(`passport\_no`);

    ADD CONSTRAINT `airlinefk5` FOREIGN KEY (`airline\_id`) REFERENCES `airline`(`airline\_id`);

ALTER TABLE `check\_in`

    ADD CONSTRAINT `airportfk4` FOREIGN KEY(`airport\_name`) REFERENCES `airport`(`airport\_name`),

    ADD CONSTRAINT `airlinefk4` FOREIGN KEY(`airline\_id`) REFERENCES `airline`(`airline\_id`);

ALTER TABLE `baggage\_belt`

    ADD CONSTRAINT `airportfk5` FOREIGN KEY(`airport\_name`) REFERENCES `airport`(`airport\_name`),

    ADD CONSTRAINT `flightfk2` FOREIGN KEY(`flight\_id`) REFERENCES `flight`(`flight\_id`)

**Tool Used**

**//specify the tools used (front end and back end)**

Frontend- React

Backend – Express and Node

Database- MySQL (from xampp)

**Join Queries**

Showcase at least 4 join queries

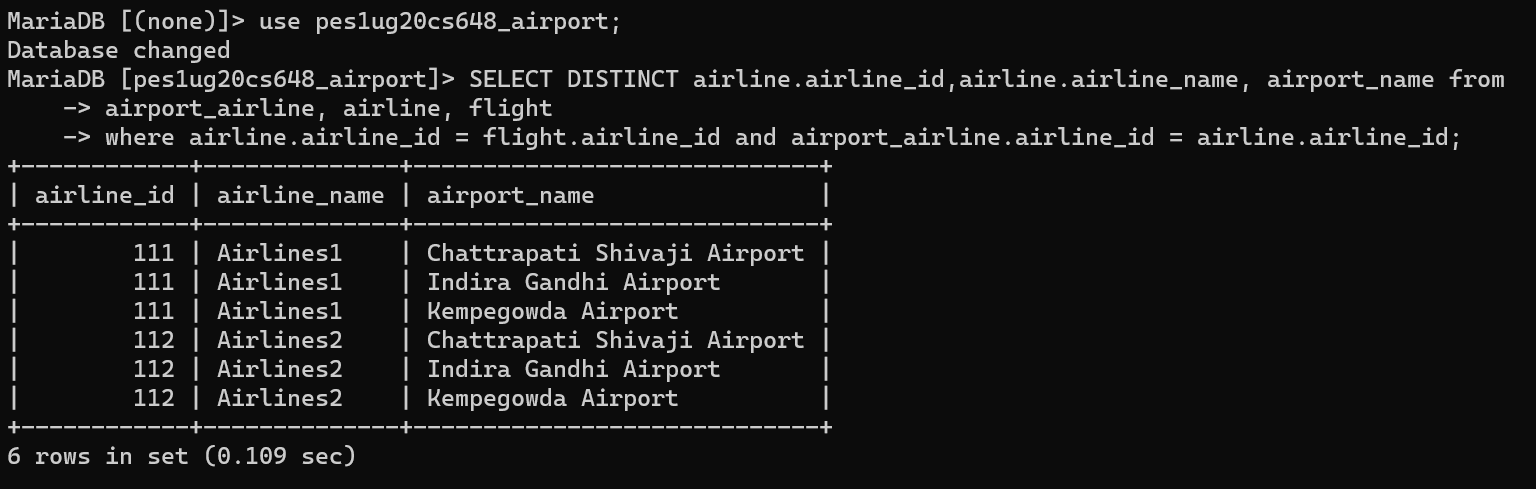
Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

1)To display all airline details that have a flight from different airports.

SELECT DISTINCT airline.airline\_id,airline.airline\_name, airport\_name from

airport\_airline, airline, flight

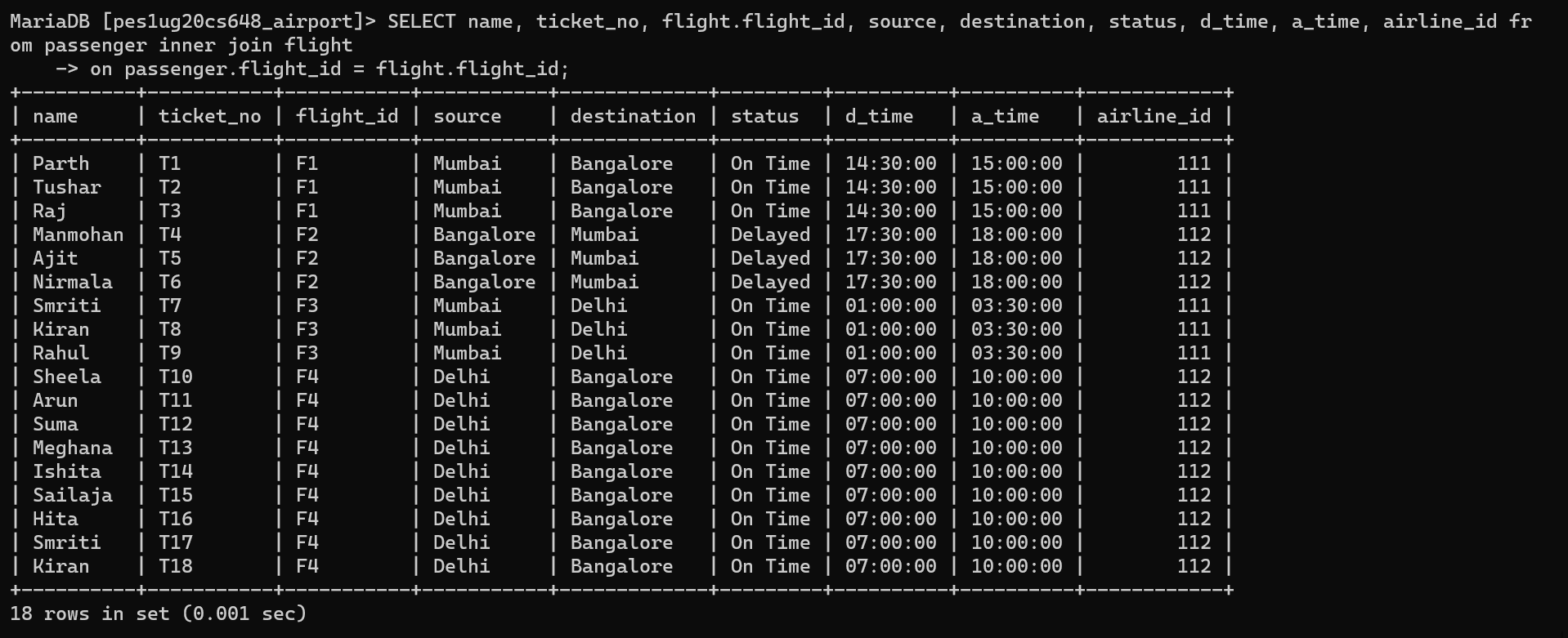
where airline.airline\_id = flight.airline\_id and airport\_airline.airline\_id = airline.airline\_id;



2) To display name of passenger and details about his flight

SELECT name, ticket\_no, flight.flight\_id, source, destination, status, d\_time, a\_time, airline\_id from passenger join flight

on passenger.flight\_id = flight.flight\_id;

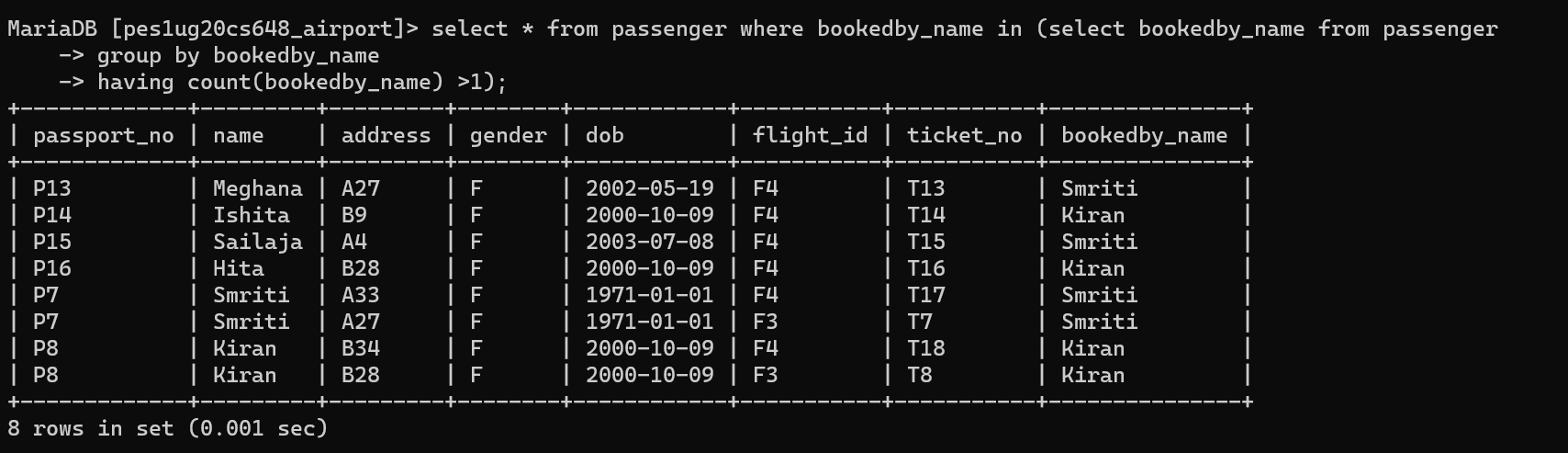


3) To display all passengers travelling in groups on the same flight.

select \* from passenger where bookedby\_name in (select bookedby\_name from passenger

group by bookedby\_name

having count(bookedby\_name) >1);



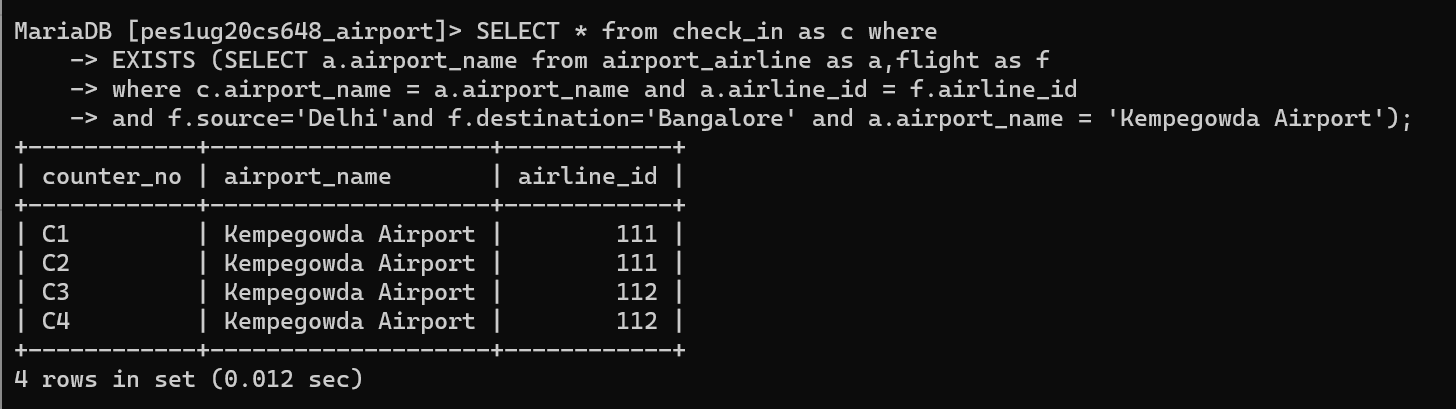
4) To display counter numbers assigned in Bangalore airport for all flights arriving at Bangalore.

SELECT \* from check\_in as c where

EXISTS (SELECT a.airport\_name from airport\_airline as a,flight as f

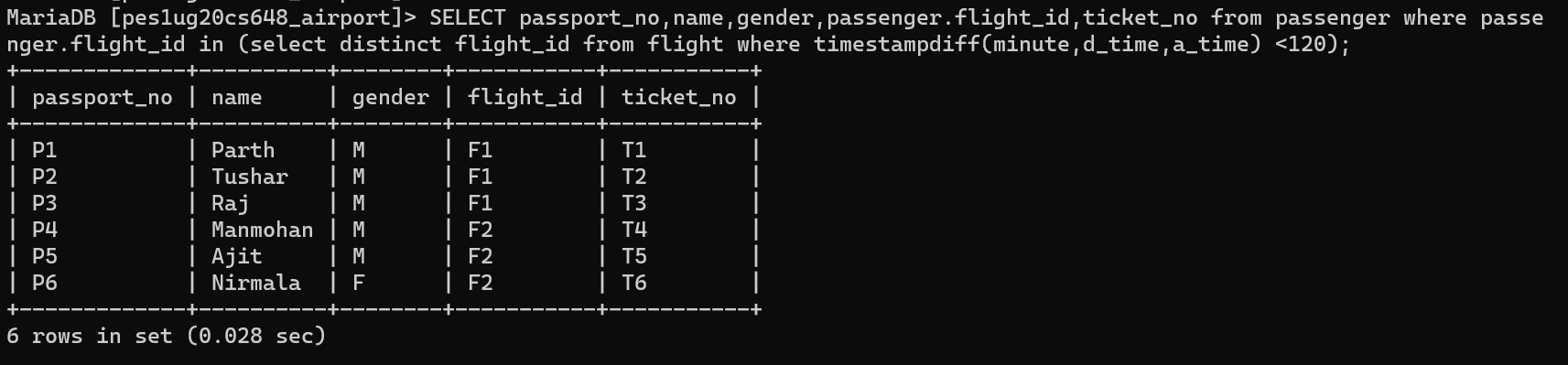
where c.airport\_name = a.airport\_name and a.airline\_id = f.airline\_id

and f.source='Delhi'and f.destination='Bangalore' and a.airport\_name = 'Kempegowda Airport');



5)Display list of passengers travelling for less than 2 hrs on a flight.

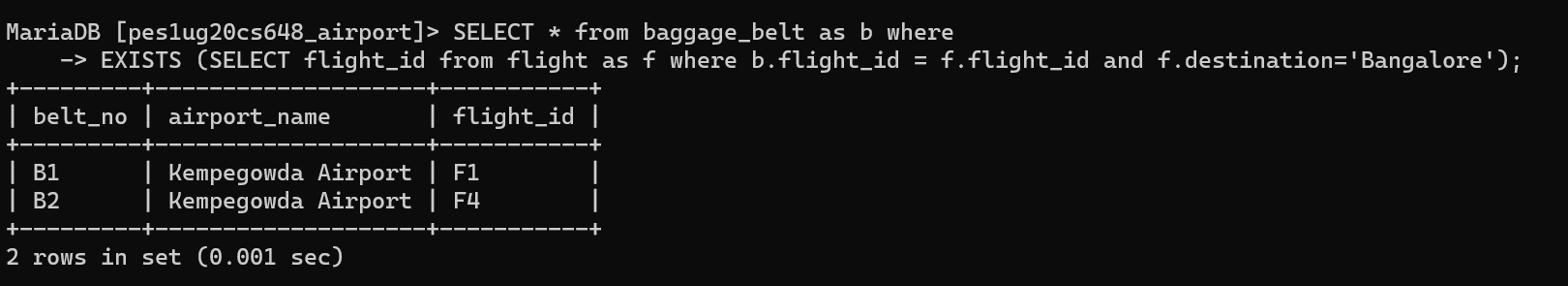
SELECT passport\_no,name,gender,passenger.flight\_id,ticket\_no from passenger where passenger.flight\_id in (select distinct flight\_id from flight where timestampdiff(minute,d\_time,a\_time) <120);



6)Display the baggage belts at Kempegowda Airport assigned to different flights arriving at the airport.

SELECT \* from baggage\_belt as b where

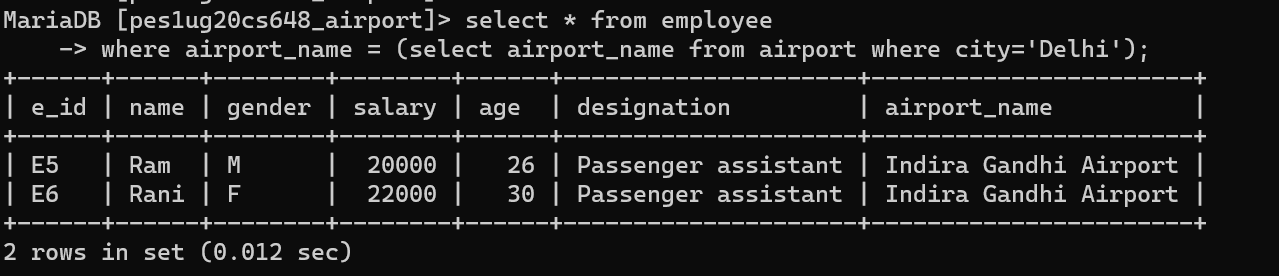
EXISTS (SELECT flight\_id from flight as f where b.flight\_id = f.flight\_id and f.destination='Bangalore');



7)Display names of employees working at the airport in Delhi(Indira Gandhi Airport).

select \* from employee

where airport\_name = (select airport\_name from airport where city='Delhi');



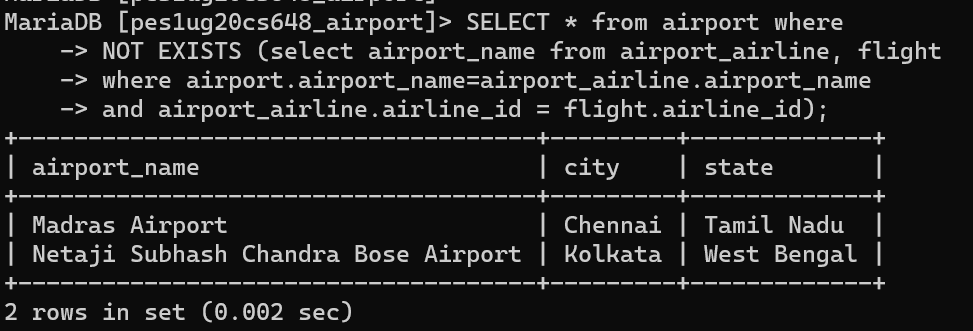
8) Display all airport that don't have any flights scheduled.

SELECT \* from airport where

NOT EXISTS (select airport\_name from airport\_airline, flight

where airport.airport\_name=airport\_airline.airport\_name

and airport\_airline.airline\_id = flight.airline\_id);



# Aggregate Functions

Showcase at least 4 Aggregate function queries

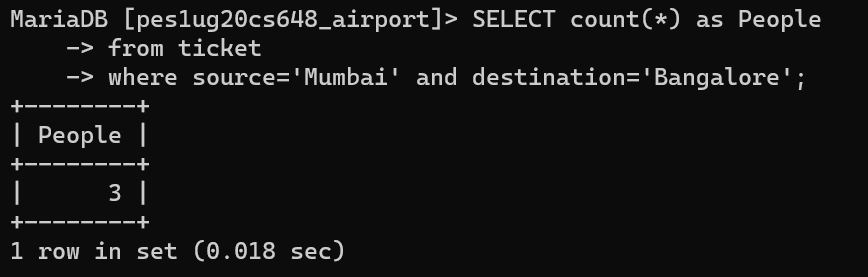
Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

1)Count number of passengers travelling from Mumbai to Bangalore

SELECT count(\*) as People

from ticket

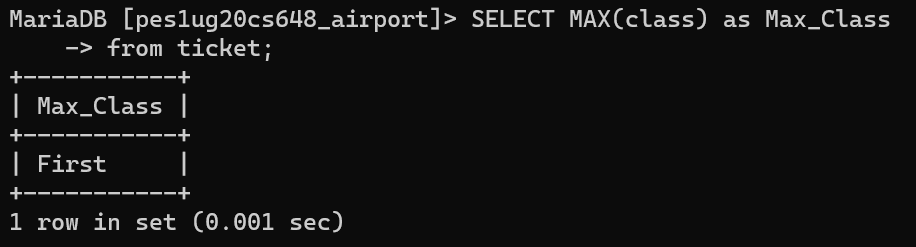
where source='Mumbai' and destination='Bangalore';



2) Display the class (Economy or Business class) which is most used for travelling.

SELECT MAX(class) as Max\_Class

from ticket;

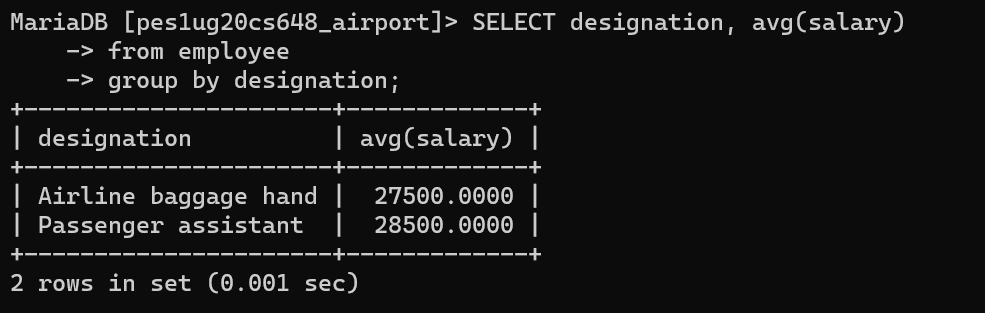


3)Find average price of all Passenger assistants at Kempegowda Airport.

SELECT designation, avg(salary)

from employee

group by designation;



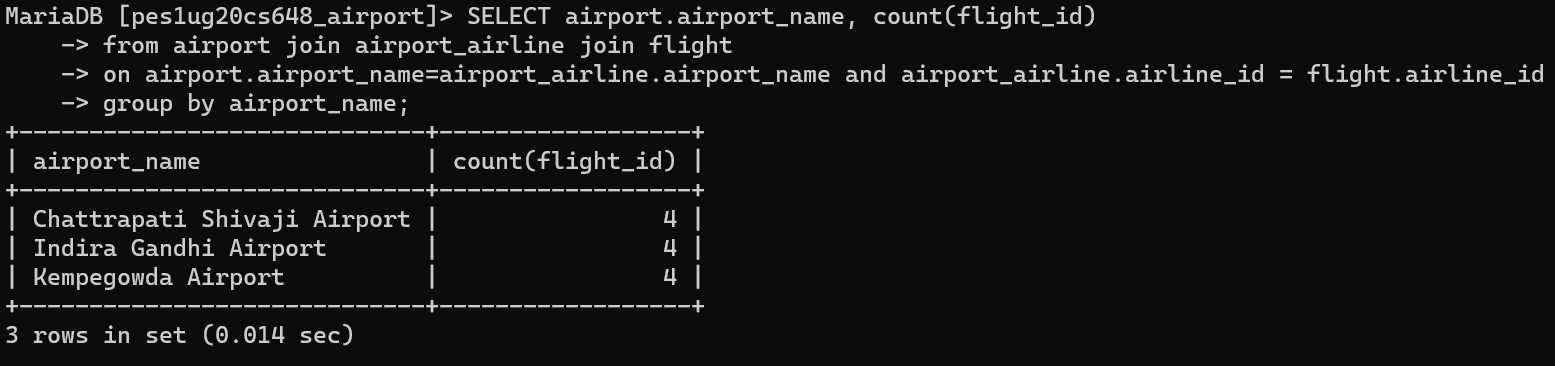
4) Number of flights per airport

SELECT airport.airport\_name, count(flight\_id)

from airport join airport\_airline join flight

on airport.airport\_name=airport\_airline.airport\_name and airport\_airline.airline\_id = flight.airline\_id

group by airport\_name;



# Set Operations

Showcase at least 4 Set Operations queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

1)Find set of passengers either travelling from Mumbai to Delhi or from Delhi to Mumbai

SELECT passport\_no,name, flight.flight\_id, source, destination

from passenger join flight

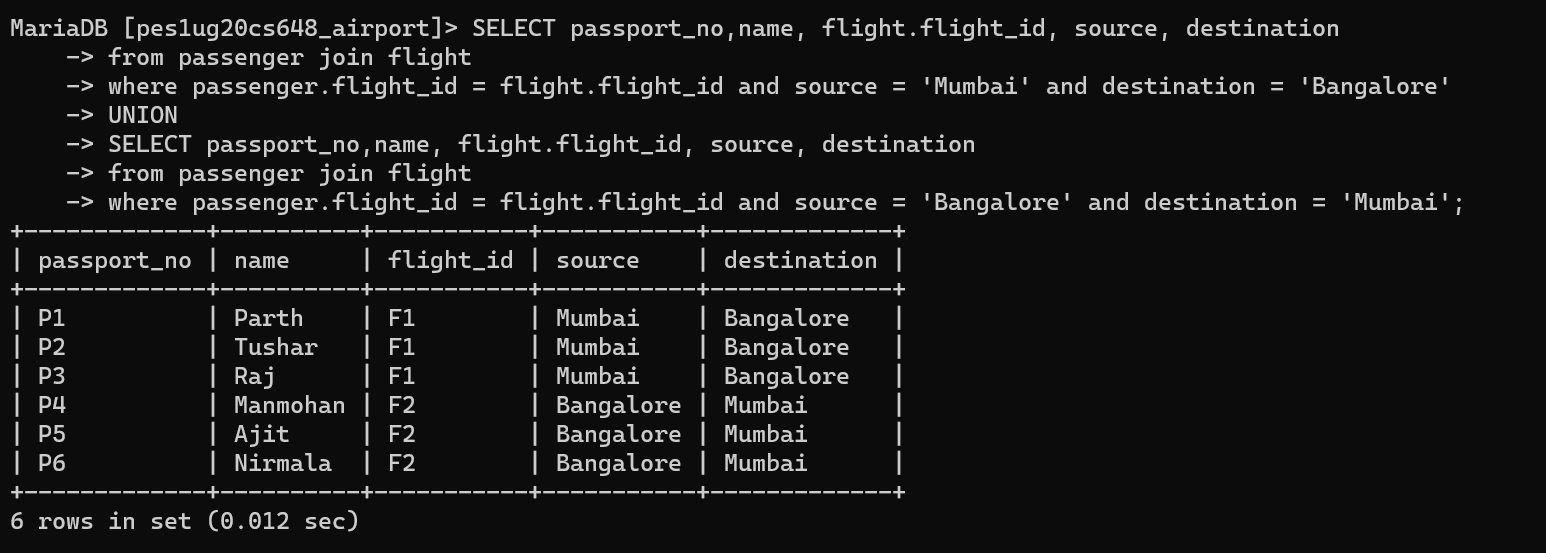
where passenger.flight\_id = flight.flight\_id and source = 'Mumbai' and destination = 'Bangalore'

UNION

SELECT passport\_no,name, flight.flight\_id, source, destination

from passenger join flight

where passenger.flight\_id = flight.flight\_id and source = 'Bangalore' and destination = 'Mumbai';



2)Find set of passengers who travelled from mumbai to delhi **and then** delhi to bangalore

SELECT passport\_no,name

from passenger join flight

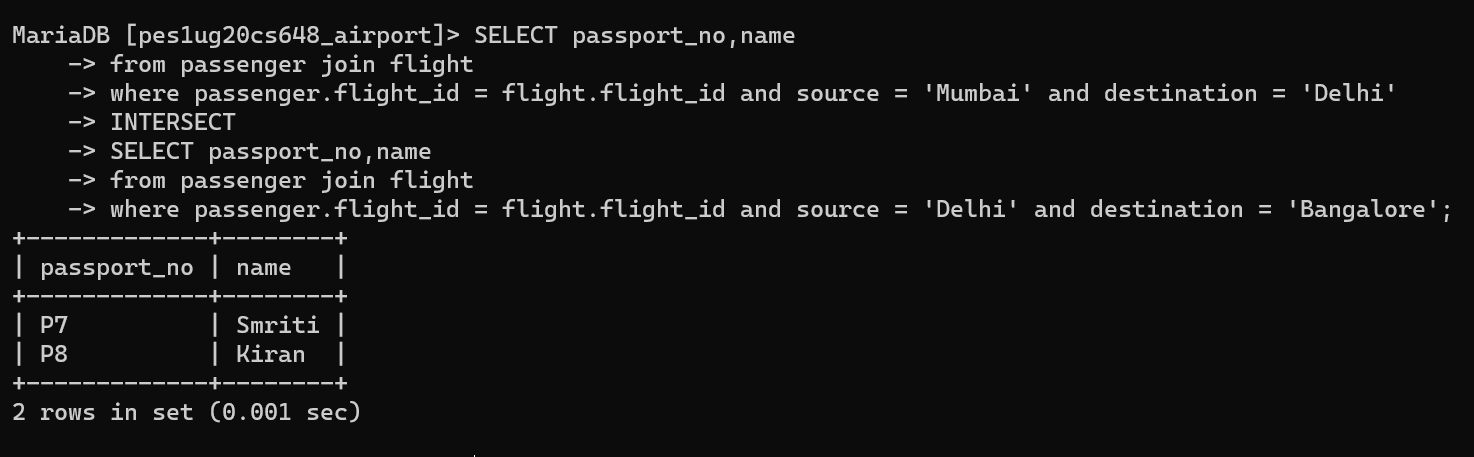
where passenger.flight\_id = flight.flight\_id and source = 'Mumbai' and destination = 'Delhi'

INTERSECT

SELECT passport\_no,name

from passenger join flight

where passenger.flight\_id = flight.flight\_id and source = 'Delhi' and destination = 'Bangalore';



3)Find the passengers travelling in Business and First class.

SELECT p.passport\_no,p.name,t.ticket\_no,t.class,t.source,t.destination

from passenger as p join ticket as t

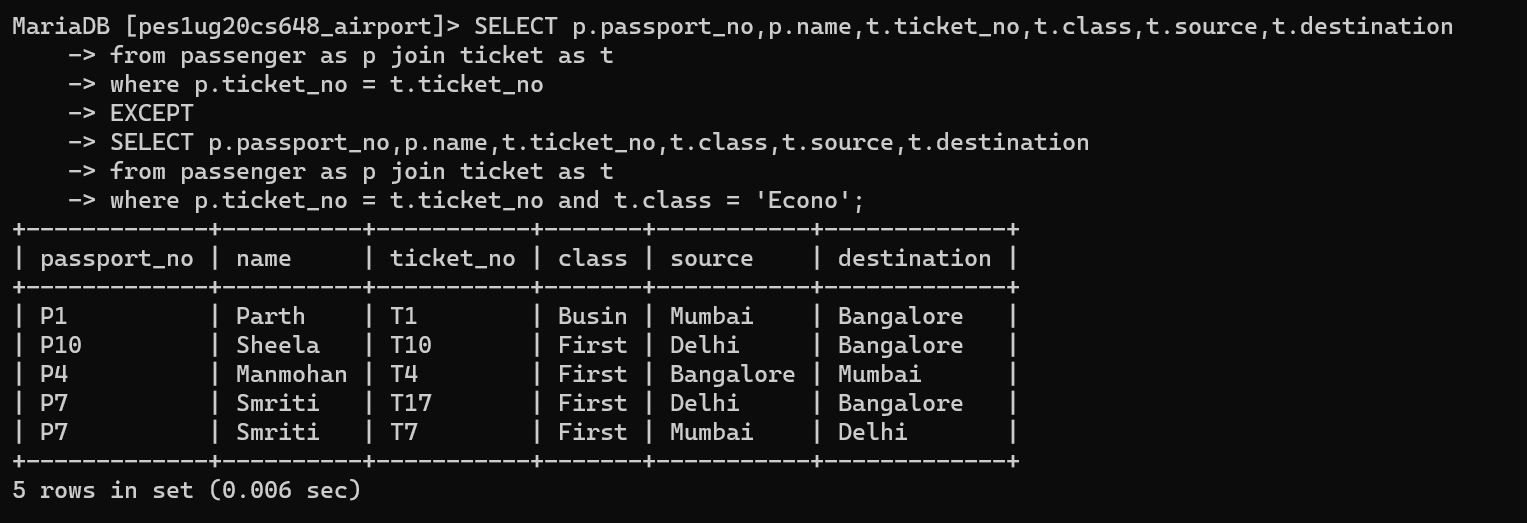
where p.ticket\_no = t.ticket\_no

EXCEPT

SELECT p.passport\_no,p.name,t.ticket\_no,t.class,t.source,t.destination

from passenger as p join ticket as t

where p.ticket\_no = t.ticket\_no and t.class = 'Econo';

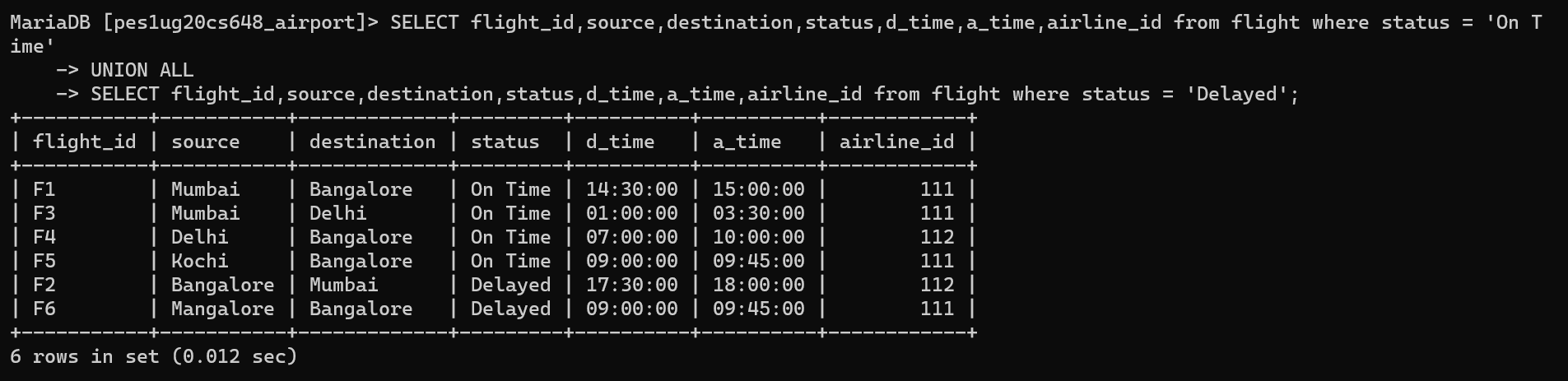


4)To display all flights that are either on time or delayed

SELECT flight\_id,source,destination,status,d\_time,a\_time,airline\_id from flight where status = 'On Time'

UNION ALL

SELECT flight\_id,source,destination,status,d\_time,a\_time,airline\_id from flight where status = 'Delayed';



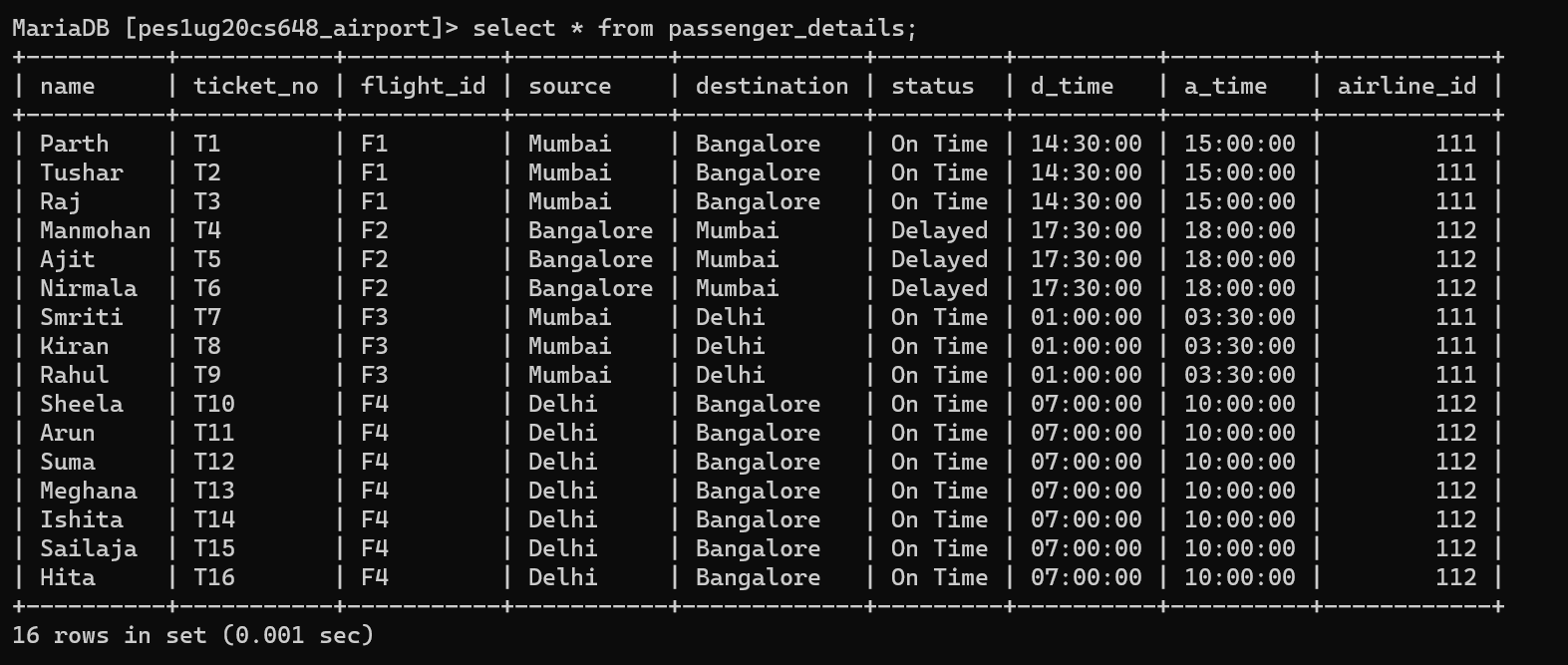
**View**

Demonstrate creation and querying one view

1. View to display name of passenger and details about his flight

SELECT name, ticket\_no, flight.flight\_id, source, destination, status, d\_time, a\_time, airline\_id from passenger inner join flight

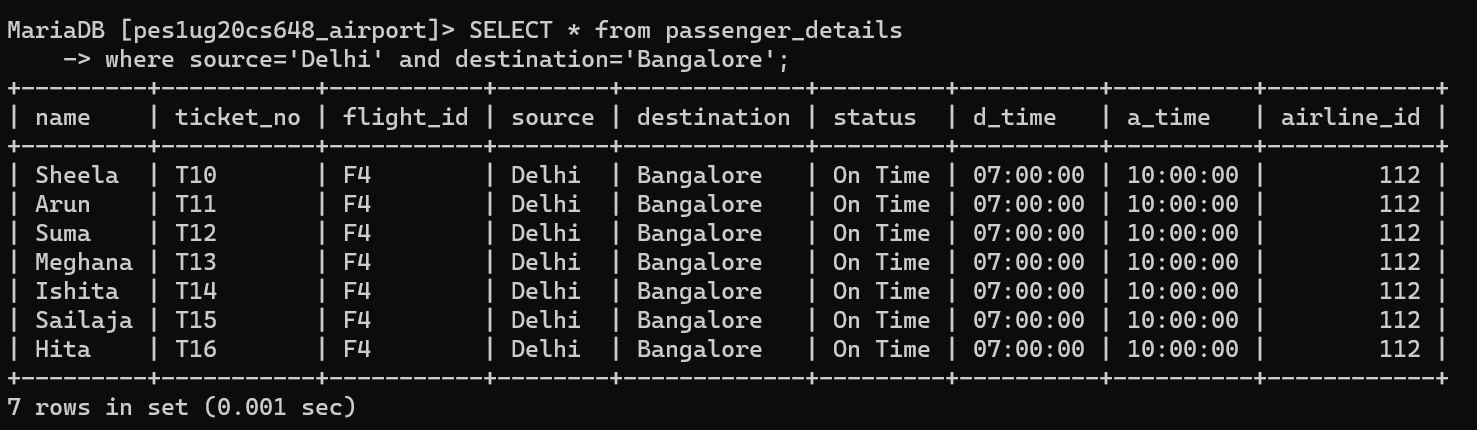
on passenger.flight\_id = flight.flight\_id;



2)Query passenger\_details to get name and flight details of all passengers travelling from Delhi to Bangalore

SELECT \* from passenger\_details

where source='Delhi' and destination='Bangalore';



**Triggers (Functions or Procedures)**

Create a Function or a Procedure. State the objective of the function / Procedure. Run and

display the results.

Function –

DELIMITER $$

CREATE FUNCTION duration\_func(d\_time time, a\_time time, flightid varchar(5))

RETURNS int

BEGIN

DECLARE duration int;

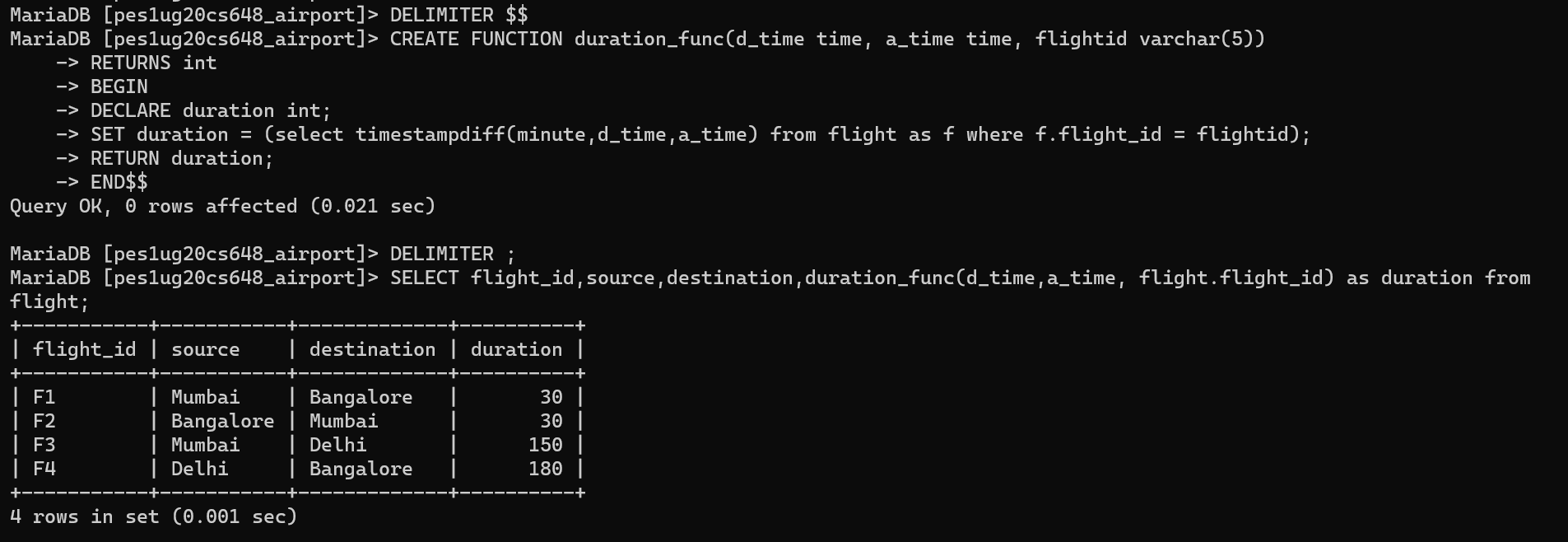
SET duration = (select timestampdiff(minute,d\_time,a\_time) from flight as f where f.flight\_id = flightid);

RETURN duration;

END$$

DELIMITER ;

SELECT flight\_id,source,destination,duration\_func(d\_time,a\_time, flight.flight\_id) as duration from flight;



Trigger calling the function –

delimiter $$

create trigger duration\_check

after insert

on flight for each row

begin

set @duration = duration\_func(NEW.d\_time,NEW.a\_time, NEW.flight\_id);

end; $$

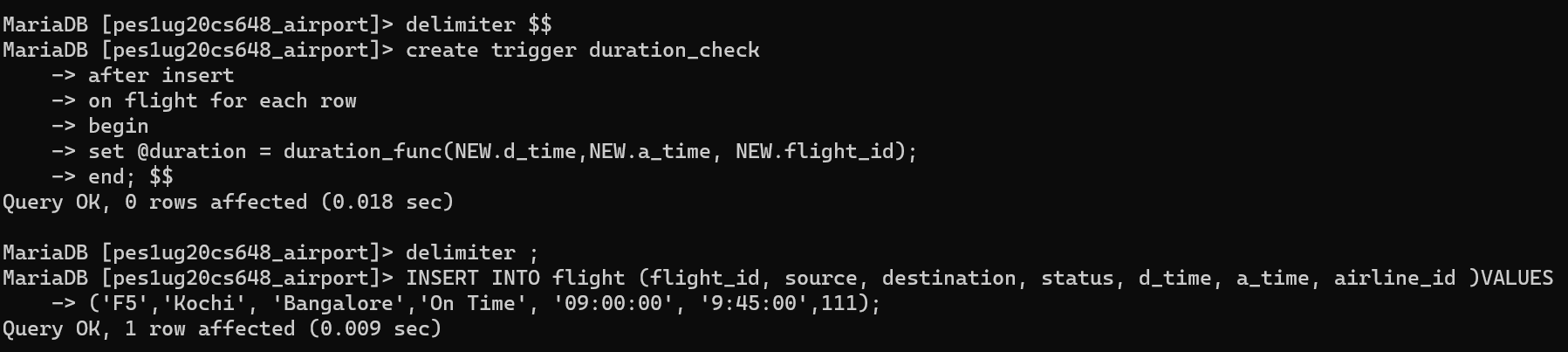
delimiter ;

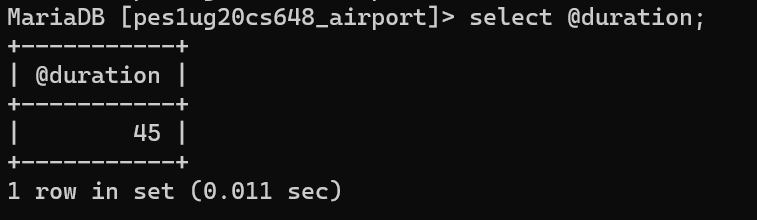
INSERT INTO flight (flight\_id, source, destination, status, d\_time, a\_time, airline\_id, tot\_seat )VALUES

('F5','Kochi', 'Bangalore','On Time', '09:00:00', '9:45:00',111,300);

INSERT INTO flight (flight\_id, source, destination, status, d\_time, a\_time, airline\_id,tot\_seat )VALUES

('F6','Mangalore', 'Bangalore','Delayed', '09:00:00', '9:45:00',111,300);





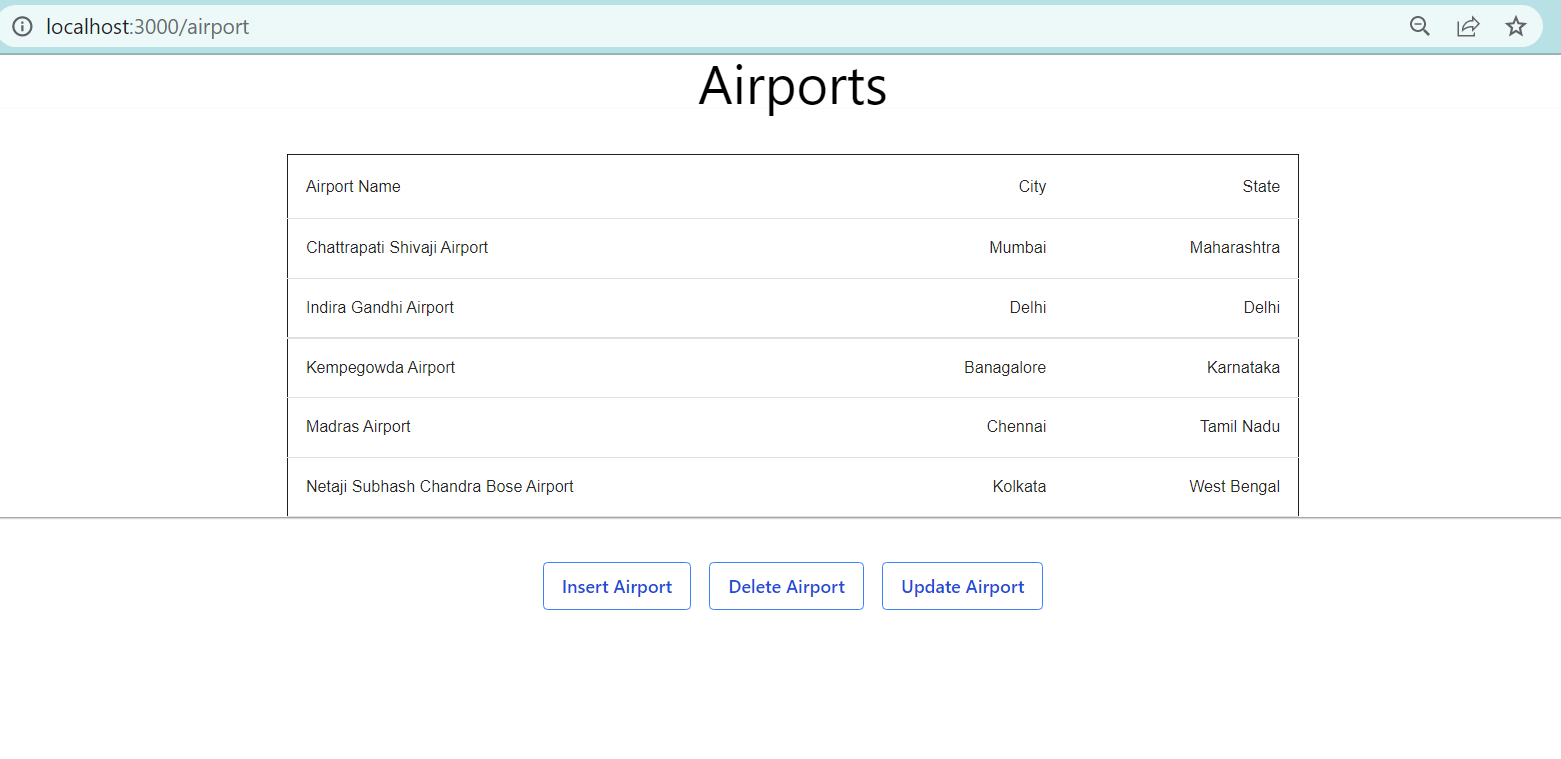
**Developing a Frontend**

The frontend should support

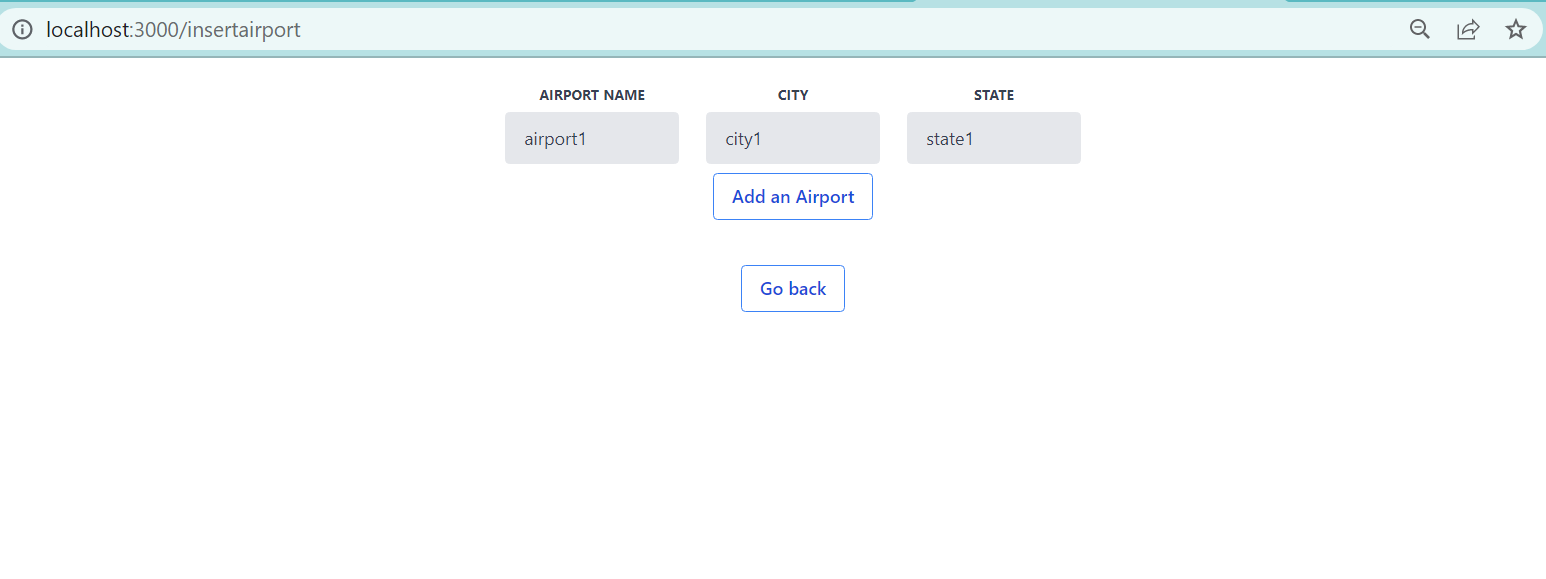
1. Addition, Modification and Deletion of records from any chosen table
2. There should be a window to accept and run any SQL statement and display the result

This frontend was developed using Node JS and Express at the backend and React for frontend

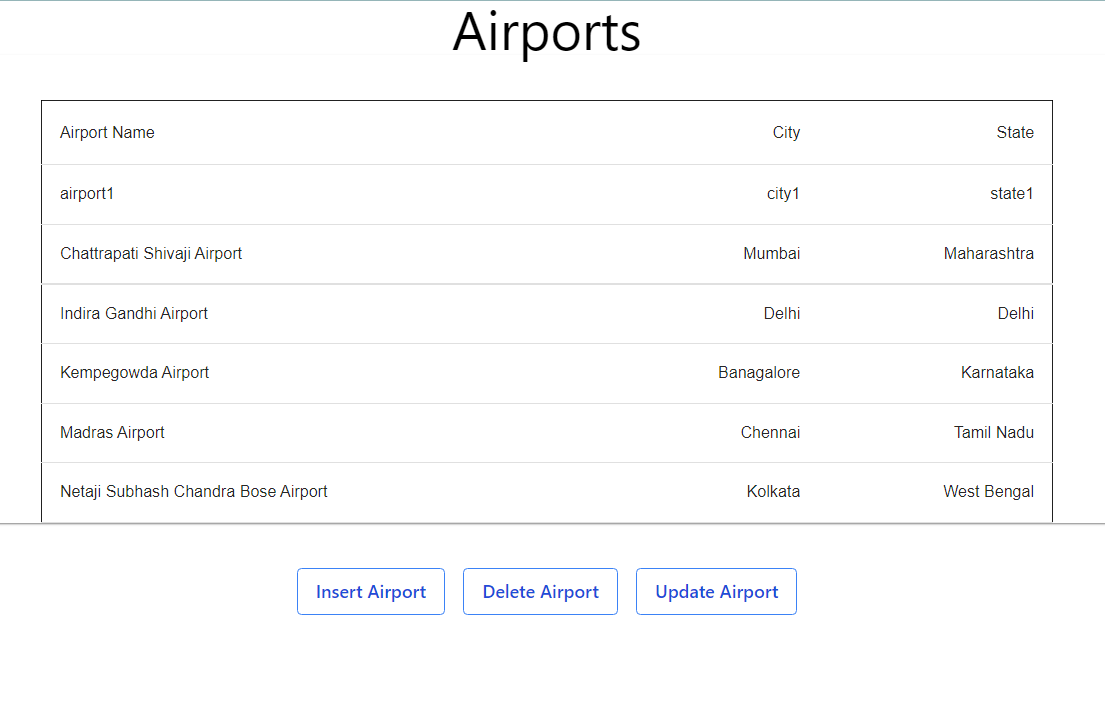
View the table Airport



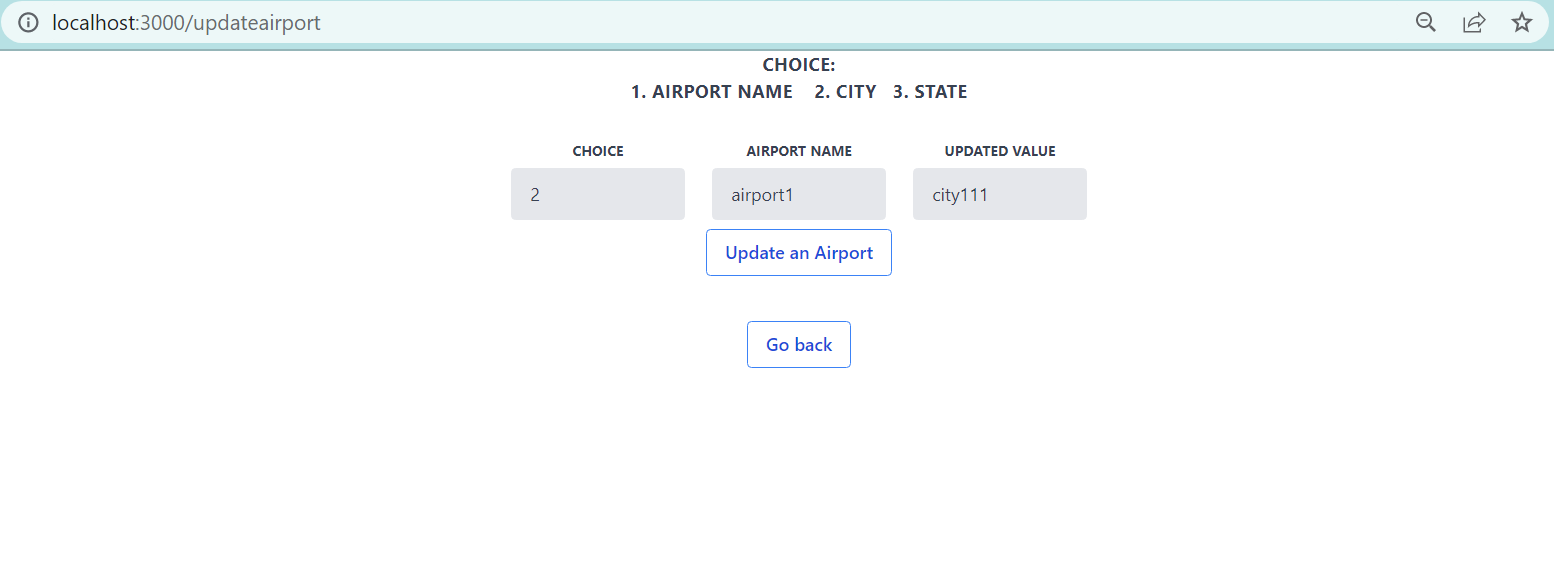
Insert a row into table Airport



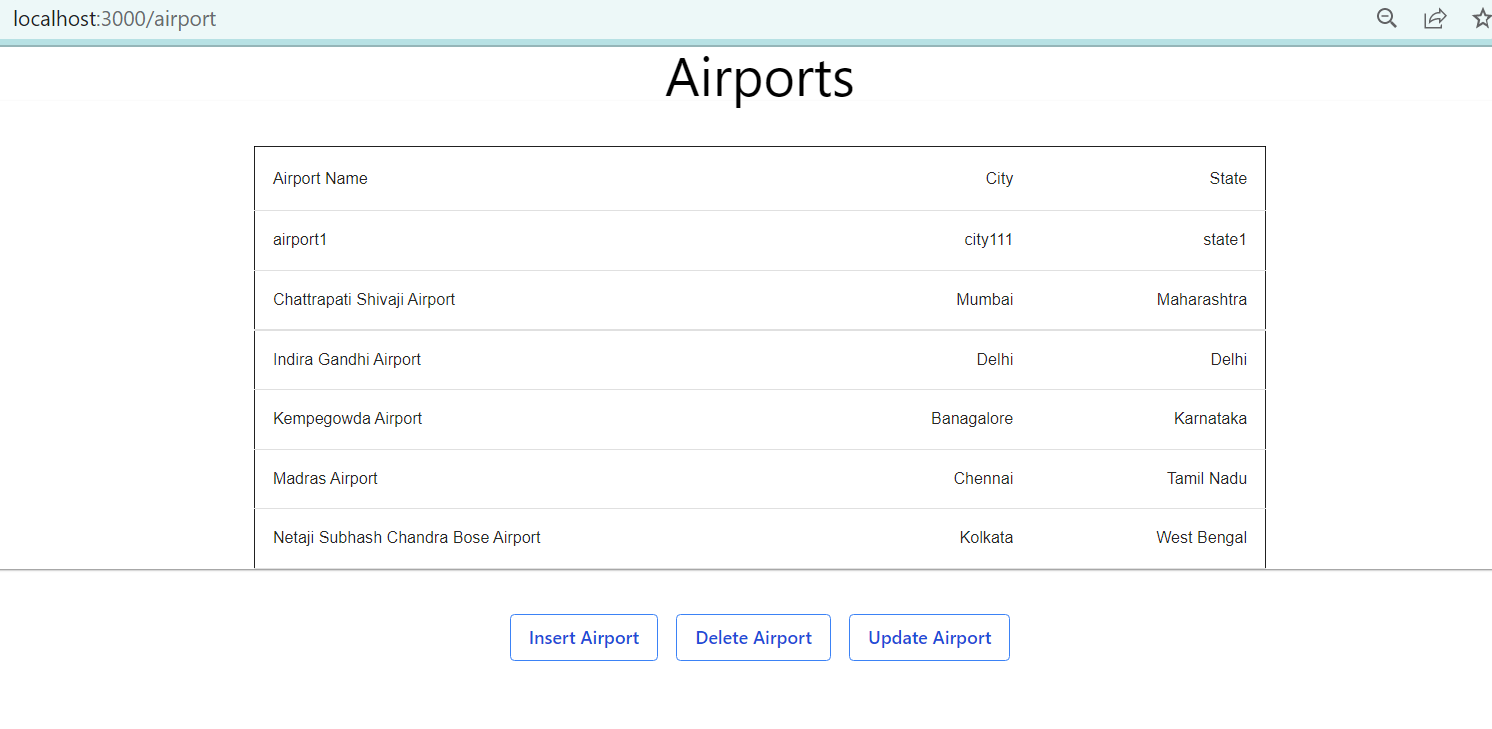
View table airport after insertion.



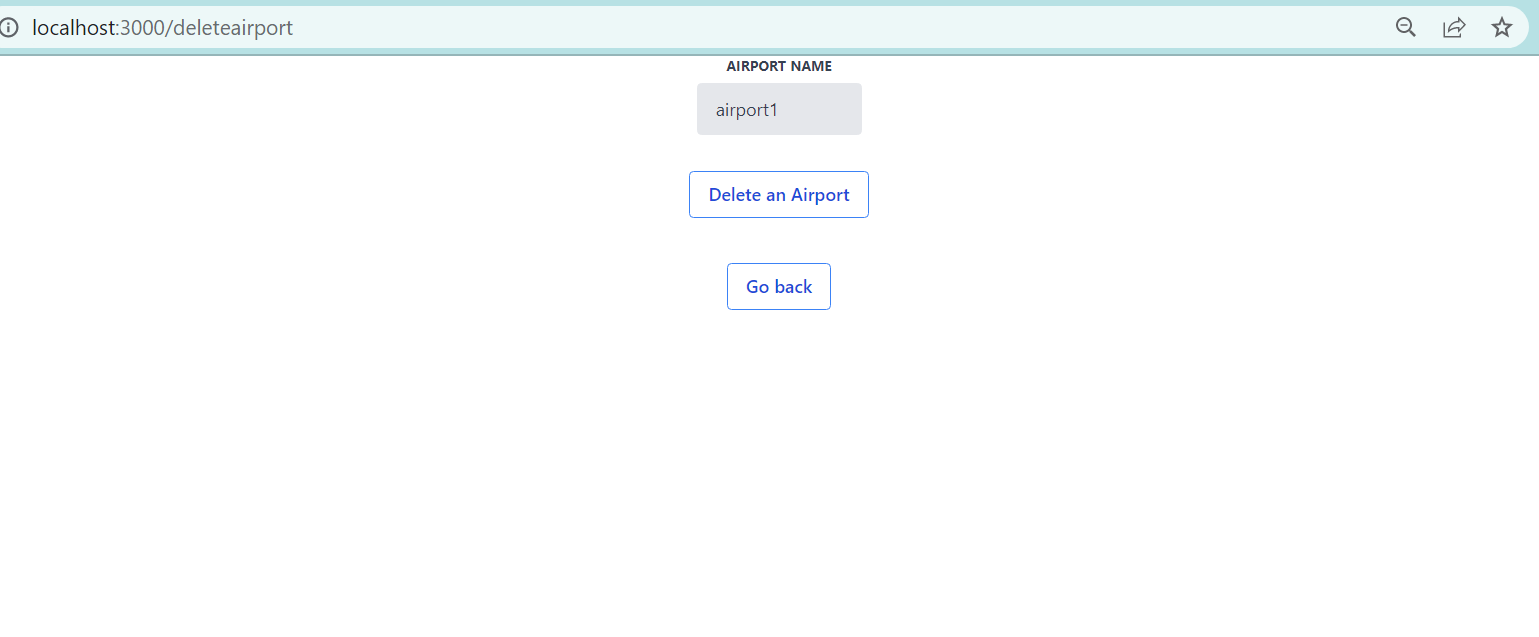
Update an airport



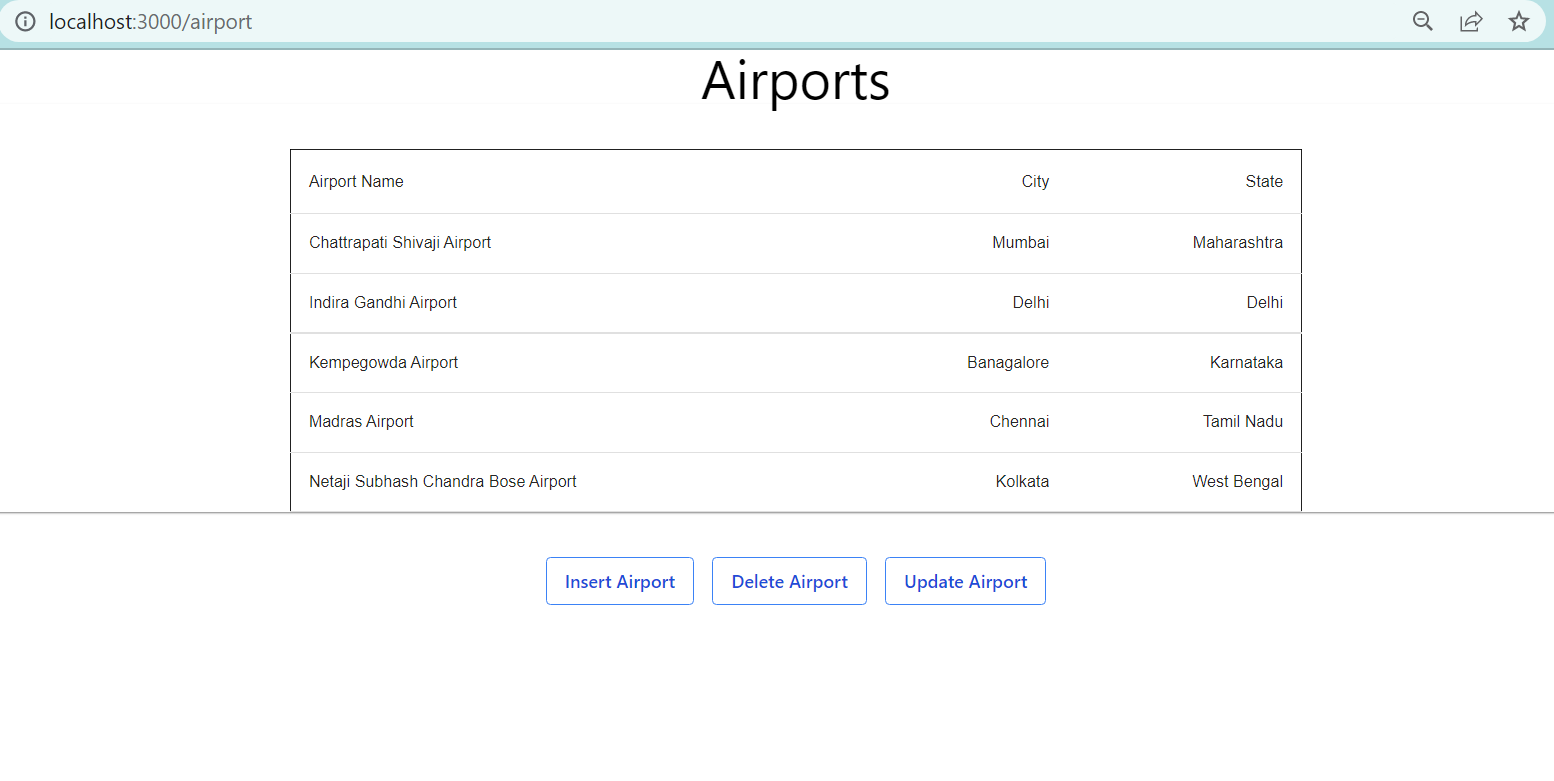
View table Airport after updating



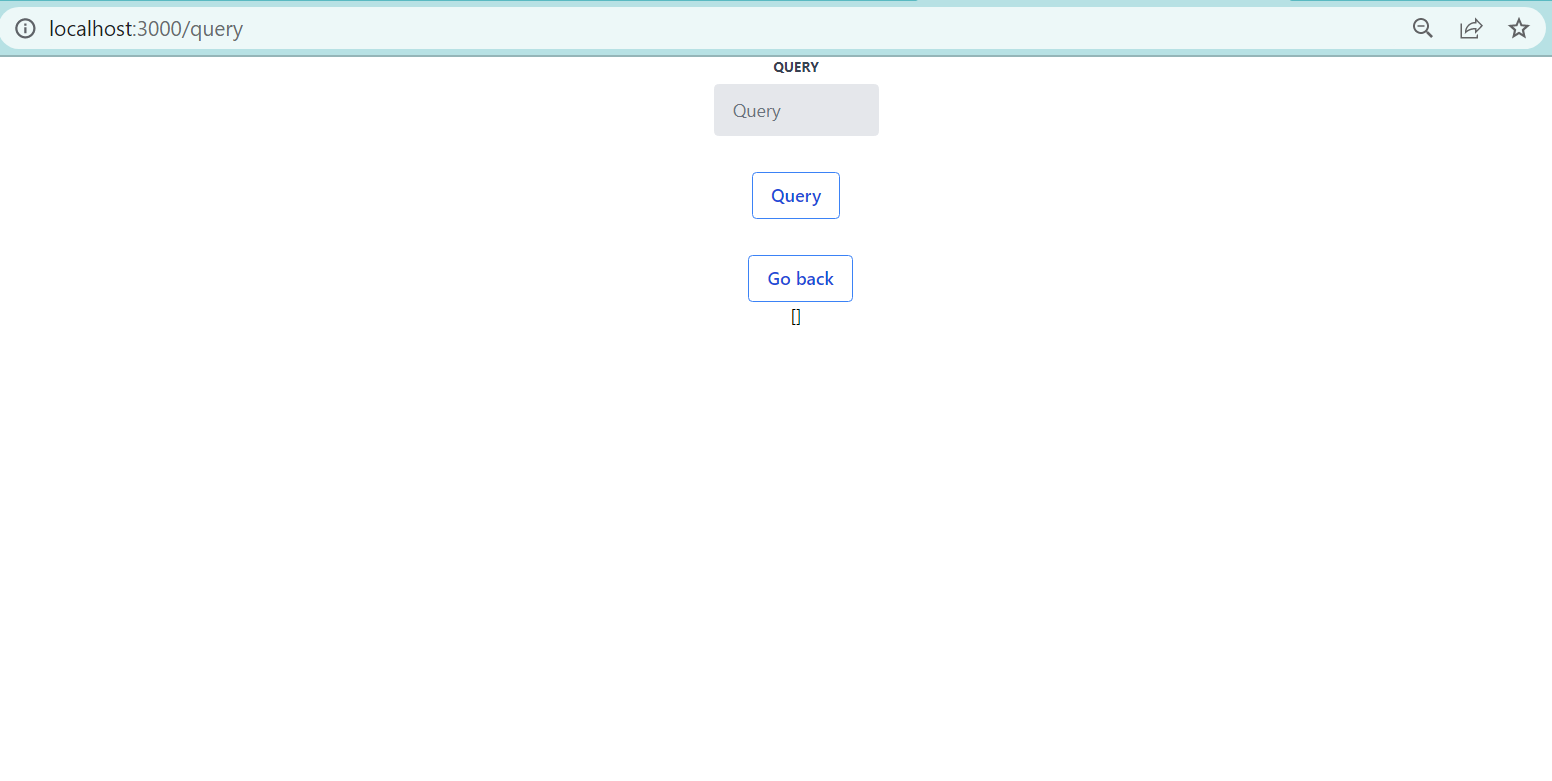
Delete an airport



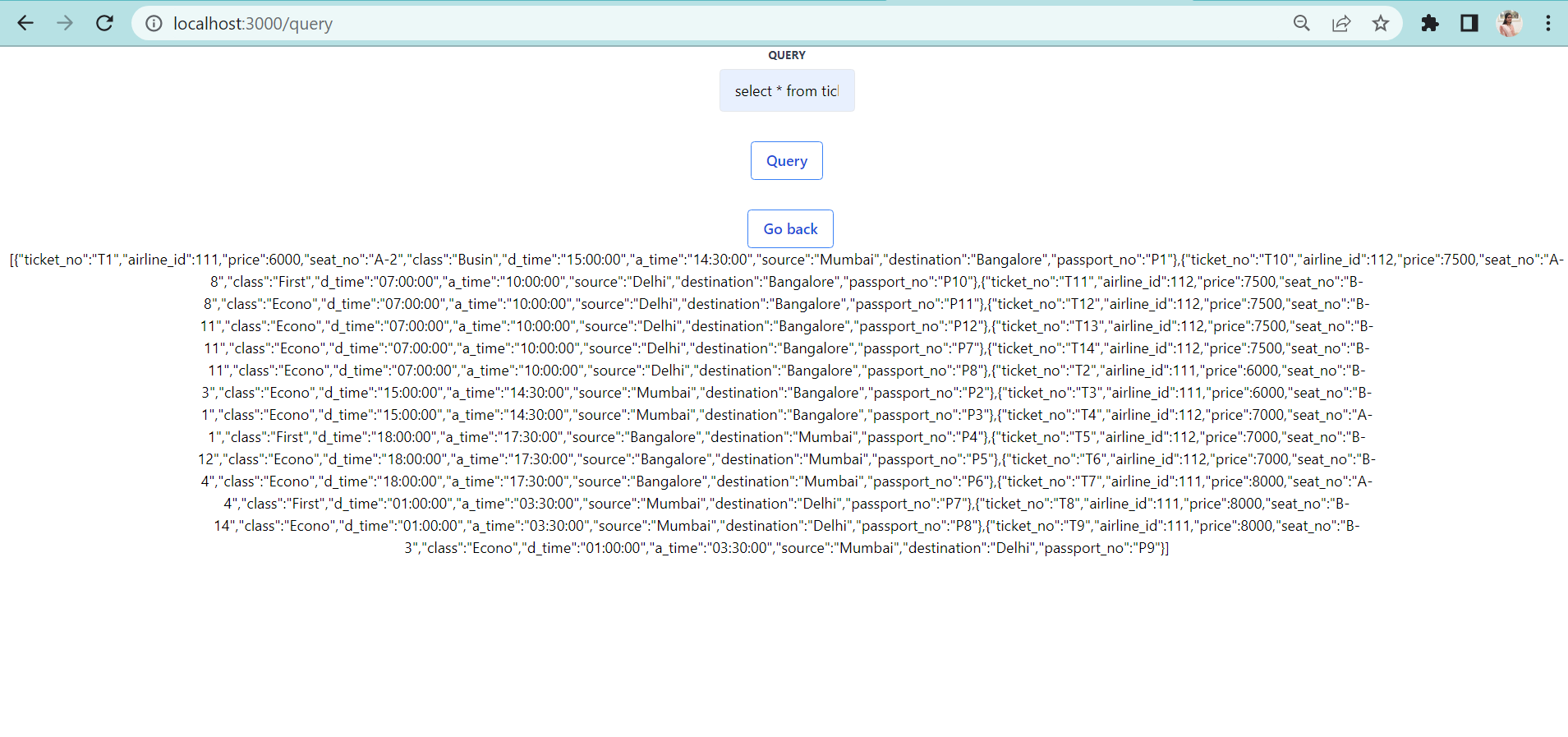
View airport table after deletion



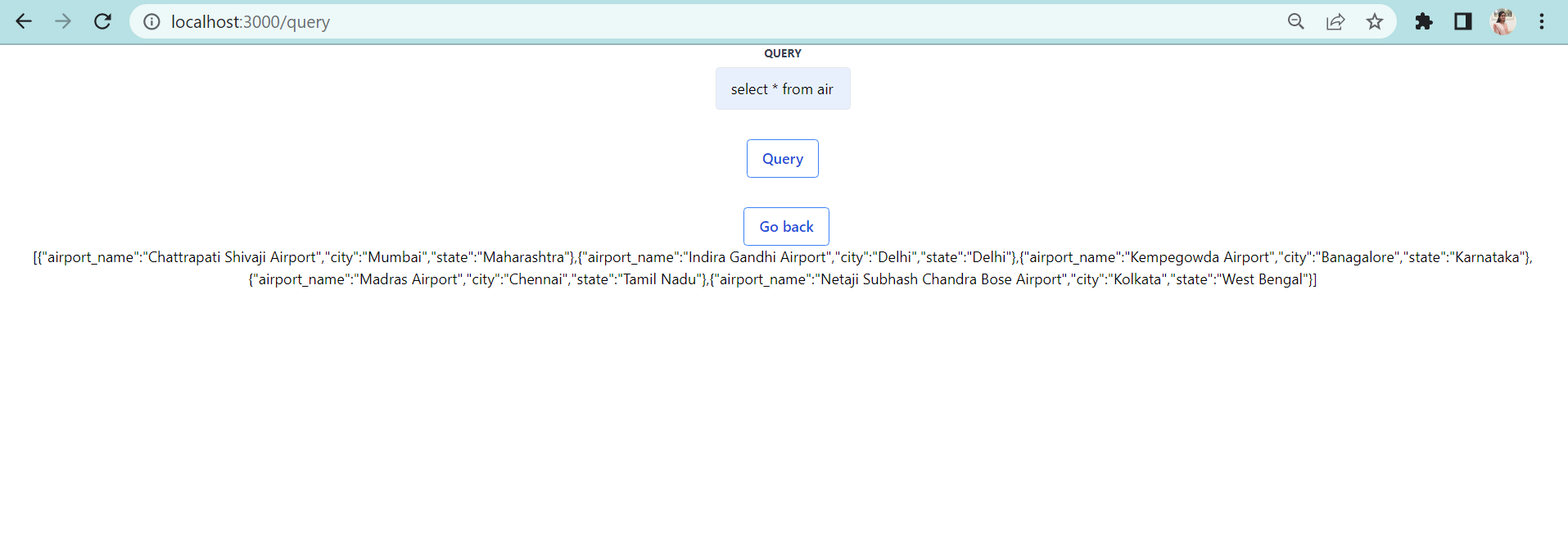
Query Page – An input box to accept and run any SQL statement and display the result



Query 1: select \* from ticket;



Query 2: Select \* from airport;



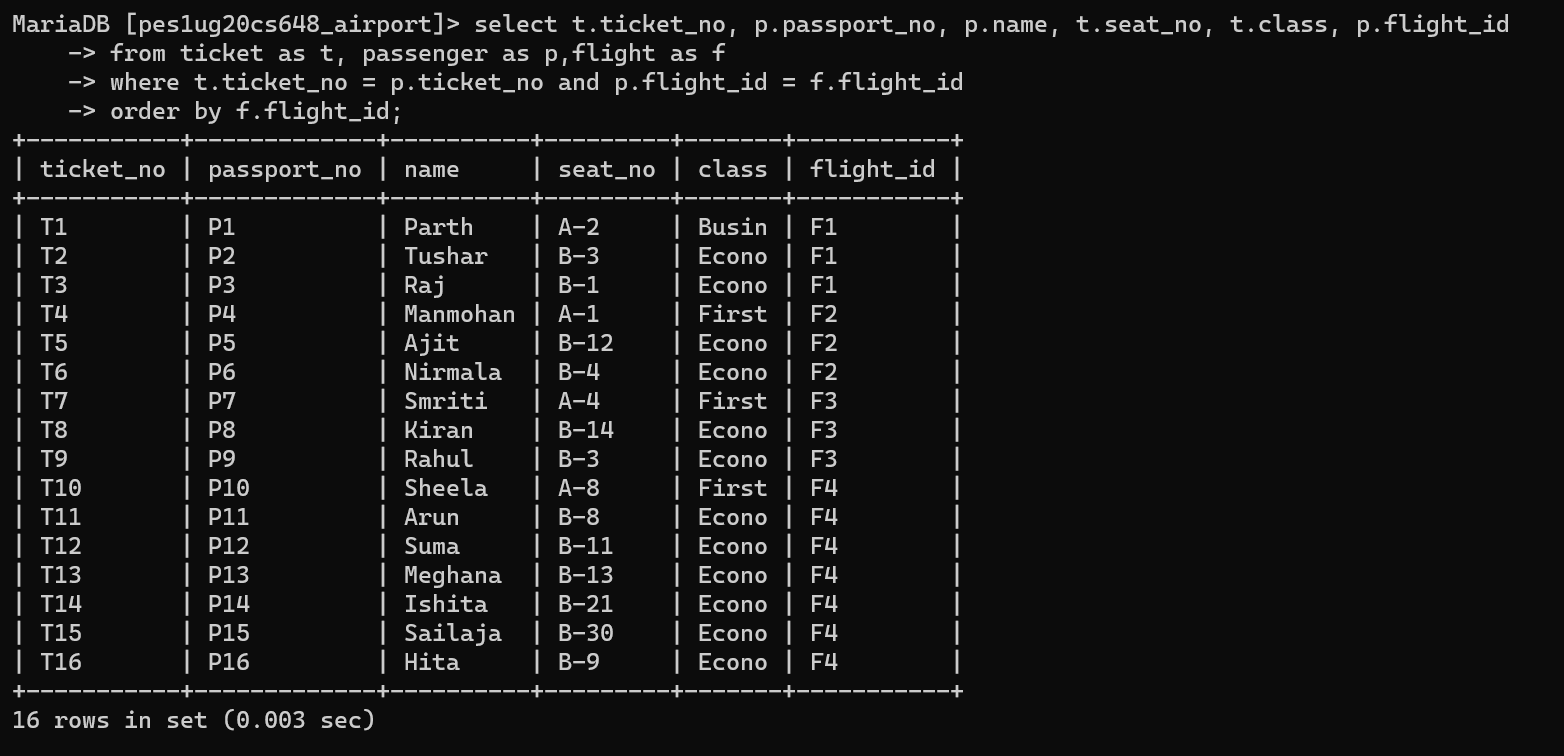
**Review Questions**

1)For each flight show how seats are filled

select t.ticket\_no, p.passport\_no, p.name, t.seat\_no, t.class, p.flight\_id

from ticket as t, passenger as p,flight as f

where t.ticket\_no = p.ticket\_no and p.flight\_id = f.flight\_id

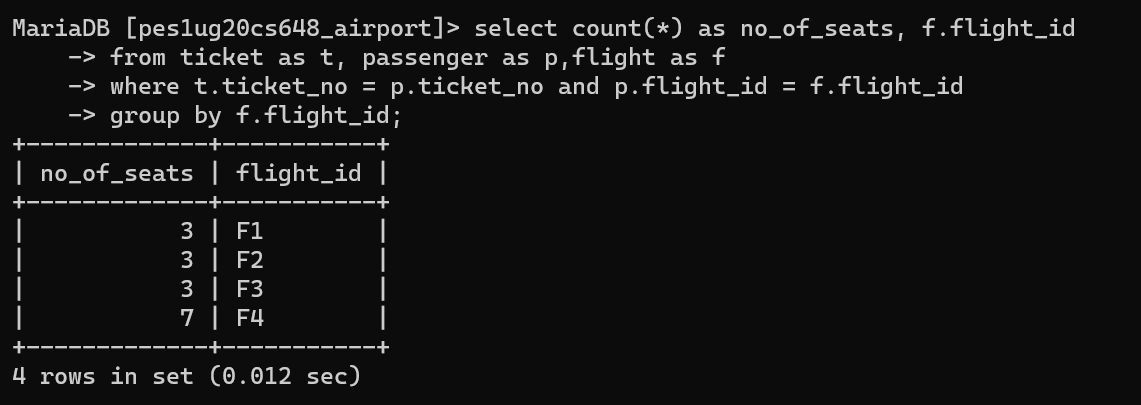
order by f.flight\_id;

select count(\*) as no\_of\_seats, f.flight\_id

from ticket as t, passenger as p,flight as f

where t.ticket\_no = p.ticket\_no and p.flight\_id = f.flight\_id

group by f.flight\_id;



2) Details of passenger who have booked >2 for the same flight

select bookedby\_name as Booked\_By, count(bookedby\_name) as count from passenger

group by bookedby\_name

having count(bookedby\_name) >2;

