

King Saud University
College of Computer and Information Sciences
Department of Information Technology

IT222: Database Principles
1st Semester 1443 H



Flyin

Phase # 4

Section #	NAME	ID
View Name: <i>Client view</i>		
56391	Lama Alshaya	441201236
56391	Aljawharah Alzamil	441201203
View Name: <i>Supervisor view</i>		
56391	Nouf Alsadhan	441201104
56391	Jumanah Aldawsari	441201034

Supervised By: *Abeer Aldrees.*

Project Description:

In this project, we are going to construct a database for Flyin application, which is an app that provides exceptional and special services for traveling and tourism via internet.

Flyin offers services that facilitate booking for clients, such as booking many tickets in one reservation, the ability to view the in-flight entertainment and services provided by the airline also book and pay by multiple ways.

The purpose of Flyin database is to maintain the data that is used and generated to support the traveling procedure for passengers and to support sharing information between supervisors and passengers and decision making, the database has many functions such as (add , delete , edit) flight, to (add , delete , edit) a passenger, to (add , delete , edit) on crew, to (add , delete , edit) on tickets and to (edit) on payment.

Flyin

Client view

Section #	NAME	ID
56391	<i>Lama Alshaya</i>	441201236
56391	<i>Aljawharah Alzamil</i>	441201203

View Description:

this database will help the clients to book any available flight on any airline company that they want , with variety prices , offers and packages , they also can review their personal profiles and they can know the flight details.

Data Requirements:

Flight:

A Flight is a trip which a passenger will book. The flight is identified by Flight_Id{PK} and has attributes such as Date, Airline_Name, Dep_Time, Arr_Time, Dep_Gate, Arr_Gate , Dep_Airport, Air_Airport and Available_Seats, Destination, Departure each flight has zero to many tickets.

Passenger :

Passenger is the one who makes a flight reservation using the application. The passenger is identified by PassengerId{PK} and has attributes such as First_Name, Last_Name, Email, Phone_NO and Passport_Info(Dob, National_Id, Passport_NO, Nationality), a passenger has zero to many tickets.

Payment:

Payment entity is responsible for payment details, The payment is identified by Payment_Id{PK} , Payment_Amount , Payment_Date , Payment_Method , a payment is confirmed when one to many tickets are booked.

reservationID is a relationship attribute occurs when there is a relation between ticket and payment.

Ticket:

A ticket allows the passenger to enter a flight , the ticket is identified by Ticket_Id{PK}, Seat_Id , Ticket_Type , a ticket belongs to one passenger.

Transaction Requirements:

Data Entry:

1. *Enter your flight id.*
2. *Enter your username.*

Data update/deletion:

1. *Edit your seat .*
2. *Delete your flight.*
3. *Edit your phone number.*

Data Queries:

1. *Display all flight destined from Riyadh to Jeddah in 23-11-2021 to 25-11-2021.*
2. *Display a specific airline companies flights.*
3. *Display a seat id in a specific flight.*
4. *Display the prices of all flights that are distend from Makkah to Taif listed from the lowest price to the highest price.*
5. *Display my personal information.*

Flyin

Supervisor view

Section #	NAME	ID
56391	Nouf Alsadhan	441201104
56391	Jumanah Aldawsari	441201034

View Description:

The database will provide the supervisor the ability to access and review all flights information(like date, departure gate, available seats..etc) and being authorized to update them, they also can access the passenger's profile which contains personal information, and the crew of a specific flight.

Data Requirements:

Flight:

A Flight is a trip which a passenger will book. The flight is identified by FlightId{PK} and has attributes such as Date, Airline_Name, Dep_Time, Arr_Time, Dep_Gate, Arr_Gate , Dep_Airport, Air_Airport and Available_Seats, Destination, Departure each flight has zero to many tickets.

Crew:

Crew is a group of employees who are responsible to work on a specific flight. The crew is identified by Staff_Id{PK} and has attributes such as First_Name, Last_Name, Email and Phone_NO, a crew belongs to zero to many flights.

Passenger :

Passenger is the one who makes a flight reservation using the application. The passenger is identified by PassengerId{PK} and has attributes such as First_Name, Last_Name, Email, Phone_NO and Passport_Info(Dob, National_Id, Passport_NO, Nationality), a passenger has zero to many tickets.

Transaction Requirements:

Data Entry:

- 1-Enter First_Name, Last_Name of a passenger.*
- 2-Enter Email,Phone_NO of a crew member.*

Data update/deletion:

- 1-Update passenger's personal information.*
- 2-Delete an upcoming Flight.*
- 3-Update the Phone_NO of a crew member.*

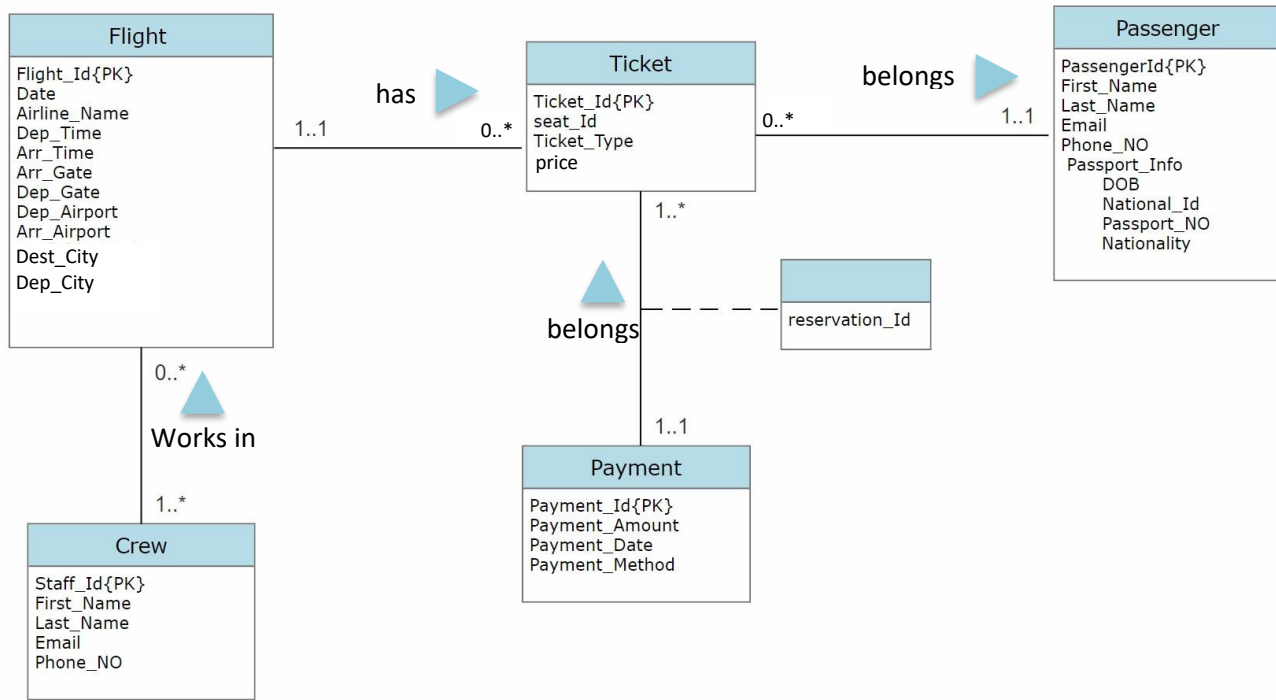
Data Queries:

- 1-Display all flights in October.*
- 2-Display all crew members who worked in a specific flight last week*
- 3-Display the First name and last name for a specific staff id*
- 4- Display a specific passport information*
- 5-Display the Dep_Gate for a specific flight*

Flyin

Global Section

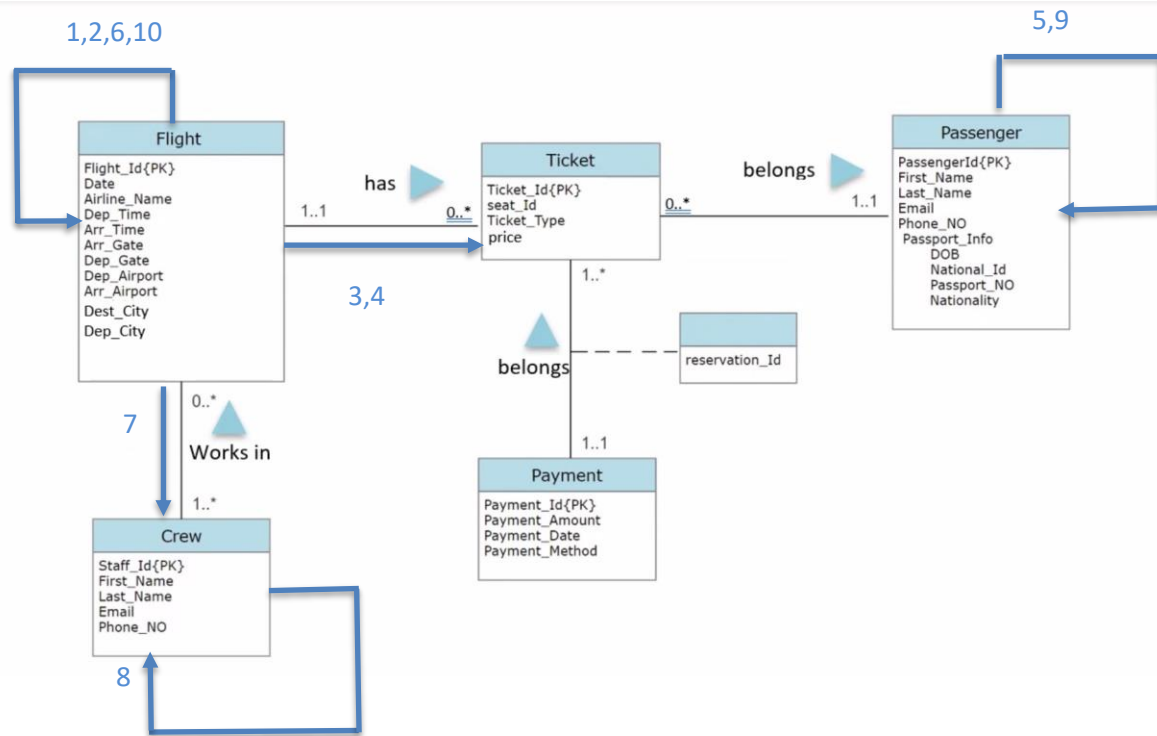
Global enhanced entity relationship diagram (EER):



Data Queries:

1. Display all flight destined from Riyadh to Jeddah in 23-11-2021 to 25-11-2021.
2. Display a specific airline company flights.
3. Display a seat id in a specific flight.
4. Display the prices of all flights that are distend from Khobar to Taif listed from the lowest price to the highest price.
5. Display specific passenger information.
- 6- Display all flights in October.
- 7- Display all crew members who worked in a specific flight last week
- 8- Display the First name and last name for a specific staff id
- 9- Display a specific passport information
- 10- Display the Dep_Gate for a specific flight.

Transaction Pathway:



Relational Schema:

Flight(Flight_Id,Date,Airline_Name,Dep_Time,Arr_Time,Arr_Gate,Dep_Gate,Arr_Airport,Dep_Airport,Dest_City,Dep_City)

Crew(Staff_Id,First_Name,Last_Name,Email,Phone_No)

Works-in(Staff_Id,Flight_Id)

Ticket(Ticket_Id,Seat_Id,Ticket_Type,Price,Flight_Id,PassengerId,Payment_Id,reservation_Id)

Passenger(PassengerId,First_name,Last_name,Email,Phone_No,DOB,National_Id,Passport_No,Nationality)

Payment (Payment_Id,Payment_amount,Payment_Date,Payment_Method)

Data Dictionary showing description of all entities:

Entity Name	Description	Occurrence
Flight	<i>A Flight is a trip which a passenger will book</i>	Flight has zero to many tickets. Flight contains one to many crew.
Passenger	<i>Passenger is the one who makes a flight reservation using the application</i>	Passenger has zero to many tickets
Crew	<i>Crew is a group of employees who are responsible to work on a specific flight</i>	crew works in zero to many flights
Ticket	<i>A ticket allows the passenger to enter a flight</i>	Ticket belongs to one and only one passenger. A ticket is referenced to one and only one flight. Ticket is assigned to one and only on payment.
Payment	<i>Payment entity is responsible for payment details</i>	payment belongs to one-to-many tickets

Data Dictionary showing description of all relationships:

Entity Name	Multiplicity	Relationship	Entity Name	Multiplicity
Crew	1..*	Works-in	Flight	0..*
Flight	1..1	has	Ticket	0..*
Payment	1..1	belongs	Ticket	1..*
Ticket	0..*	belongs	Passenger	1..1

Data Dictionary showing description of all attributes:

Entity Name	Attribute	Description	Data Type	Length	Nulls	Multi-Valued	Default Value	Range	PK
Flight	Flight_Id	Unique identifier of the flight	Varchar	15	No	No	No	No	Yes
	Date	The date of the flight	Date	-	No	No	No	No	No
	Airline_Name	The company's name who provided the flight	Varchar	20	No	No	No	No	No
	Dep_Time	The time when the flight start take off	Time	-	No	No	No	No	No
	Arr_Time	The time when the flight start landing	Time	-	No	No	No	No	No

	Dep_Gate	The gate where the flight will take off from	Varchar	10	No	No	No	No	No
	Arr_Gate	The gate where the flight will land in	Varchar	10	No	No	No	No	No
	Dep_Airport	The airport where the flight will take off from	Varchar	25	No	No	No	No	No
	Arr_Airport	The airport where the flight will land in	Varchar	25	No	No	No	No	No
	Dep_City	The city where the flight will take off from	Varchar	20	No	No	No	No	No
	Dest_City	The city where the flight will land in	Varchar	20	No	No	No	No	No
Ticket	Ticket_ID	A unique identifier for each ticket	Varchar	8	No	No	No	No	Yes
	Seat_ID	A number of the chair that the passenger will set on	Varchar	3	No	No	No	No	No
	Ticket_type	Is a class which a passenger can choose according to the services and price	Varchar	20	No	No	Economy class	Economy class / business class / first class	No
	price	Is the total fee for a single ticket including the base fare,	Decimal	7,2	No	No	No	No	No

		taxes, and VAT for a single ticket							
Payment	Payment_ID	Is a unique identifier for the receipt	Varchar	10	No	No	No	No	Yes
	Payment_Amount	Is the total price for a single or multiple tickets	Decimal	8,2	No	No	No	No	No
	Payment_Date	The date when the payment amount is paid	Date	-	No	No	No	No	No
	Payment_Method	a method which a passenger can choose to pay through	Varchar	15	No	No	No	Visa / credit card / apple pay	No
Passenger	<i>PassengerId</i>	The identifier for the Passenger	Varchar	15	No	No	No	No	yes
	<i>First_Name</i>	The passenger's first name	Varchar	15	No	No	No	No	No
	<i>Last_name</i>	The passenger's last name	Varchar	15	No	No	No	No	No
	<i>Email</i>	The passenger's email	Varchar	30	No	No	No	No	No
	<i>Phone_NO</i>	The passenger's phone number	Varchar	14	No	No	No	No	No
	<i>Passport_Info</i>	It is Composite attribute which indicates the passenger's passport information	-	-	-	-	-	-	-
	<i>Dob</i>	The passenger's date of birth	Date	-	No	No	No	No	No

	<i>National_Id</i>	The passenger's national Id	Varchar	10	No	No	No	No	No
	<i>Passport_NO</i>	The passenger's passport number	Varchar	15	No	No	No	No	No
	<i>Nationality</i>	The passenger's nationality	Varchar	20	No	No	No	No	No
Crew	Staff_Id	A unique identifier for each staff on flight	Varchar	15	No	No	No	No	Yes
	First_Name	The staff's first name	Varchar	15	No	No	No	No	No
	Last_Name	The staff's last name	Varchar	15	No	No	No	No	No
	Email	The staff's email	Varchar	30	No	No	No	No	No
	Phone_Number	The staff's phone number	Varchar	14	No	No	No	No	No

DB tables creation commands:

```
CREATE TABLE Flight(  
Flight_Id varchar(15),  
Flight_Date Date Not Null,  
Airline_Name varchar(20) Not Null,  
Dep_Time Time Not Null,  
Arr_Time Time Not Null,  
Dep_Gate varchar(10) Not Null,  
Arr_Gate varchar(10) Not Null,  
Dep_Airport varchar(25) Not Null,  
Arr_Airport varchar(25) Not Null,  
Dep_City varchar(20) Not Null,  
Dest_City varchar(20) Not Null,  
Primary key(Flight_Id));
```

```
CREATE TABLE Payment(  
Payment_Id varchar(10) Not Null,  
Payment_Amount decimal(8,2) Not Null,  
Payment_Date Date Not Null,  
Payment_Method varchar(15) not null check(Payment_Method IN  
( 'Visa','CreditCard','ApplePay' ) ),  
PRIMARY KEY (Payment_Id));
```

```
CREATE TABLE Crew(  
Staff_Id varchar(15),  
First_Name varchar(15) Not Null ,  
Last_Name varchar(15) Not Null,  
Email varchar(30) Not Null,  
Phone_Number varchar(14) Not Null,  
Primary key (Staff_Id));
```

```
CREATE TABLE Passenger (  
Passenger_Id Varchar(15),  
First_Name Varchar(15) Not Null,  
Last_Name Varchar(15) Not Null,  
Email Varchar(30) Not Null,  
Phone_NO Varchar(14) Not Null,  
Dob Date Not Null,
```

National_Id Varchar(10) Not Null,
Passport_No Varchar(15) Not Null,
Nationality Varchar(20) Not Null,
Primary key (Passenger_Id));

```
CREATE TABLE Ticket(  
Ticket_Id varchar(8),  
Seat_Id varchar(3) Not Null,  
Ticket_type varchar(20)  
default 'Economy class' check(Ticket_type IN('Economy class','Business  
class','First class')) not null,  
Price decimal(7,2) Not Null,  
Flight_Id varchar(15) Not Null,  
Passenger_Id Varchar(15) Not Null,  
Payment_Id varchar(10) Not Null,  
resevation_Id varchar(10) Not Null,  
Primary key(Ticket_Id),  
Foreign key(Flight_Id) references Flight(Flight_Id) ,  
Foreign key(Passenger_Id) references Passenger(Passenger_Id) ,  
Foreign key(Payment_Id) references Payment(Payment_Id));
```

```
CREATE TABLE Works_in(  
Staff_Id varchar(15),  
Flight_Id varchar(15),  
Primary key(Staff_Id,Flight_Id),  
Foreign key(Staff_Id) references Crew(Staff_Id),  
Foreign key(Flight_Id) references Flight(Flight_Id) );
```

Data insertion commands:

```
INSERT INTO Flight VALUES('F01123',Date'2021-10-  
14','Flynas',Time'12:00:00',Time'13:30:00','G06C','G34B','King Fahad  
airport','Altaif Airport','Khobar','Taif');  
INSERT INTO Flight VALUES('F00143',DATE'2021-11-  
24','SaudiArabianAirLine',Time'16:30:00',Time'18:00:00','G01B','G05A','King  
Khalid Airport','King Abdulaziz Airport','Riyadh','Jeddah');
```

```

INSERT INTO Passenger
VALUES('P5163789003','Saleh','Fahad','s_fahad@gmail.com','+966504157198',Date'1995-10-01','1065027292','W588860','Saudi');
INSERT INTO Passenger
VALUES('P516773603','Fares','Saud','fares.saud@gmail.com','+966504665108',Date'2001-09-11','1119271692','5911521687','Kuwaiti');

INSERT INTO Payment VALUES('P1008765',7805.50,Date'2021-10-10','Visa');
INSERT INTO Payment VALUES('P1004356',5328.25,Date'2021-11-01','CreditCard');

INSERT INTO Crew VALUES('SF98','Haya','Abdullah','HAYA98@gmail.com','+966546864876');
INSERT INTO Crew
VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com','+9665437865481');

INSERT INTO Ticket VALUES('BT08','F14','Business class',1200.00,'F00143','P516773603','P1004356','R2294');
INSERT INTO Ticket VALUES('ET16','M34','Economy class',800.00,'F01123','P5163789003','P1008765','R3359');

INSERT INTO works_in VALUES('SF98','F01123');
INSERT INTO works_in VALUES('SM94','F00143');

```

Data Queries commands and outputs:

Schema

The screenshot shows the SQL Fiddle interface with the following components:

- Header:** SQL Fiddle logo, PostgreSQL 9.3, View Sample Fiddle, Clear, Text to DDL, Donate button, and About link.
- SQL Editor:** Contains the following SQL commands:


```

79
80 INSERT INTO Crew VALUES('SF98','Haya','Abdullah','HAYA98@gmail.com','+
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14','Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34','Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');

```
- Query Panel:** A light blue box on the right with the text: "Query Panel Use this panel to try to solve the problem with other SQL statements (SELECTs, etc...). Results will be displayed below. Share your queries by copying and pasting the".
- Buttons:** Build Schema, Edit Fullscreen, Browser, Run SQL, Edit Fullscreen.
- Status Bar:** A green bar at the bottom with a checkmark and the text "Schema Ready".

Query 1

```
SELECT *
FROM Flight
WHERE Dep_City='Riyadh' AND Dest_City='Jeddah' AND Flight_Date
BETWEEN '2021-11-23' AND '2021-11-25';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','+
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[;\]](#)

```
1 SELECT *
2 FROM Flight
3 WHERE Dep_City='Riyadh' AND Dest_City='Jeddah' AND Flight_Date BETWEEN '20
4
```

[Run SQL](#)[Edit Fullscreen](#)[\[;\]](#)

flight_id	flight_date	airline_name	dep_time	arr_time	dep_gate	arr_gate	dep_airport	arr_airport	dep_city	dest_city
F00143	2021-11-24	SaudiArabianAirLine	16:30:00	18:00:00	G01B	G05A	King Khalid Airport	King Abdulaziz Airport	Riyadh	Jeddah

✓ Record Count: 1; Execution Time: 49ms [+ View Execution Plan](#) [➔ link](#)

Query 2

```
SELECT *
FROM Flight
WHERE Airline_Name ='Flynas';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','+
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[;\]](#)

```
1 SELECT *
2 FROM Flight
3 WHERE Airline_Name ='Flynas';
4
```

[Run SQL](#)[Edit Fullscreen](#)[\[;\]](#)

flight_id	flight_date	airline_name	dep_time	arr_time	dep_gate	arr_gate	dep_airport	arr_airport	dep_city	dest_city
F01123	2021-10-14	Flynas	12:00:00	13:30:00	G06C	G34B	King Fahad airport	Altaif Airport	Khobar	Taif

✓ Record Count: 1; Execution Time: 40ms [+ View Execution Plan](#) [➔ link](#)

Query 3

```
SELECT Seat_Id
FROM Ticket
WHERE flight_Id='F00143';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','4
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

```
1 SELECT Seat_Id
2 FROM Ticket
3 WHERE flight_Id='F00143';
4
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[:\]](#)[Run SQL](#)[Edit Fullscreen](#)[\[:\]](#)

seat_id

F14

✓ Record Count: 1; Execution Time: 37ms [+ View Execution Plan](#) [link](#)

Query 4

```
SELECT f.Flight_Id,price
FROM Ticket t,Flight f
WHERE t.flight_Id=f.flight_Id
AND Dep_city='Khobar' AND Dest_city='Taif'
ORDER BY price asc;
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','4
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

```
1 SELECT f.Flight_Id,price
2 FROM Ticket t,Flight f
3 WHERE t.flight_Id=f.flight_Id
4 AND Dep_city='Khobar' AND Dest_city='Taif'
5 ORDER BY price asc;
6
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[:\]](#)[Run SQL](#)[Edit Fullscreen](#)[\[:\]](#)

flight_id

price

F01123

800

✓ Record Count: 1; Execution Time: 36ms [+ View Execution Plan](#) [link](#)

Query 5

```
select *
from Passenger
where Passenger_Id='P5163789003';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','+
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[:\]](#)

```
1 select *
2 from Passenger
3 where Passenger_Id='P5163789003';
4
5
```

[Run SQL](#)[Edit Fullscreen](#)[\[:\]](#)

passenger_id	first_name	last_name	email	phone_no	dob	national_id	passport_no	nationality
P5163789003	Saleh	Fahad	s_fahad@gmail.com	+966504157198	1995-10-01	1065027292	W588860	Saudi

✓ Record Count: 1; Execution Time: 36ms [+ View Execution Plan](#) [➔ link](#)

Query 8

```
select First_Name ,Last_Name
from Crew
where Staff_Id='SF98';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','+
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

[Build Schema](#)[Edit Fullscreen](#)[Browser](#)[\[:\]](#)

```
1 select First_Name ,Last_Name
2 from Crew
3 where Staff_Id='SF98';
4
5
6
```

[Run SQL](#)[Edit Fullscreen](#)[\[:\]](#)

first_name	last_name
Haya	Abdullah

✓ Record Count: 1; Execution Time: 16ms [+ View Execution Plan](#) [➔ link](#)

Query 10

```
select Dep_Gate
from Flight
where Flight_Id='F01123';
```

```
79
80 INSERT INTO Crew VALUES('SF98','Haya', 'Abdullah', 'HAYA98@gmail.com','4
81 INSERT INTO Crew VALUES('SM94','khalid','mohammed','Khalidmm@gmail.com'
82
83 INSERT INTO Ticket VALUES('BT08','F14', 'Business class',1200.00,'F00143
84 INSERT INTO Ticket VALUES('ET16','M34', 'Economy class',800.00,'F01123',
85
86 INSERT INTO works_in VALUES('SF98','F01123');
87 INSERT INTO works_in VALUES('SM94','F00143');
```

Build Schema

Edit Fullscreen

Browser

[:]

```
1 select Dep_Gate
2 from Flight
3 where Flight_Id='F01123';
4
5
6
7
```

Run SQL

Edit Fullscreen

[:]

dep_gate

G06C

✓ Record Count: 1; Execution Time: 20ms [+ View Execution Plan](#) [➔ link](#)

Work Distribution:

NAME	ID	Percentage	WORK
<i>Lama Alshaya</i>	<i>441201236</i>	<i>25%</i>	<i>Client View and global section</i>
<i>Nouf Alsadhan</i>	<i>441201104</i>	<i>25%</i>	<i>Supervisor View and global section</i>
<i>Jumanah Aldawsari</i>	<i>441201034</i>	<i>25%</i>	<i>Supervisor View and global section</i>
<i>Aljawharah Alzamil</i>	<i>441201203</i>	<i>25%</i>	<i>Client View and global section</i>