Kingdom of Saudi Arabia
Ministry of Higher Education
King Faisal University
College of Computer Sciences & Information Technology

Tourism Management Agency Database System

Database Concepts and Design Course Project

Year: 2023-24 Semester: 2

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1. Introduction

The Tourism Management Agency Database System is designed to revolutionize the manner tourism-associated activities are controlled and facilitated. In today's fast-moving world, the tourism enterprise faces demanding situations in successfully coordinating bookings and different associated services. This system's goals are to deal with those demanding situations through offering a centralized platform.

Tourists' requirements and travel agents' services form the foundation of the Tourism Management Agency Database System. **Travel agencies** are used by both individual and group tourists to plan and coordinate their travels. Travel agencies can have thorough client profiles with all their information and travel history on file, which they can use to recommend or assign **hotels** or **airlines** and effectively manage bookings and reservations. guaranteeing **Tourists** a unique travel experience.

Hotels and airlines play important roles in the tourism industry, and effective management is critical to customer satisfaction. The travel agency makes the selections for flights and hotels. **The hotel** provides ratings, pricing, and availability of rooms. **Airlines** can also include information such as prices, arrival time, ratings, etc. A tourists' whole travel experience is improved by a smooth process of hotels and airlines, enhancing the overall travel experience for tourists.

In conclusion, the Tourism Management Agency Database System offers a central platform that transforms the facilitation and control of tourism-related operations. Technology facilitates the smooth management of **bookings** and guarantees an enjoyable trip for **tourists** by perfectly combining the needs of tourists with the services provided by **travel agencies**. The approach also improves the processes of **hotels and airlines**, improving overall customer pleasure, while acknowledging the important role that these businesses play in the tourism industry. The tourist Management Agency Database System solves the difficulties facing the tourism industry by providing a comprehensive solution for efficiently organizing and supporting great travel experiences.

2. System Analysis

A. List of users

- **Tourists**
- **Travel Agents**
- **Hotels**
- **Airlines**

B. List of main functions

- **Agency add Tourists who** can book tours and provide details of the trip.
- **Agency add Travel Agents** who can manage bookings on behalf of tourists, track commissions, and provide assistance during the booking process.
- **Agency add Hotels who** They are assigned by Travel Agents and can view bookings to generate reports to optimize operations, providing details about prices and ratings.
- **Agency add Airlines who** They are assigned by Travel Agents and can view their bookings, provide information about flights such as arrival times, and manage flight-related details.

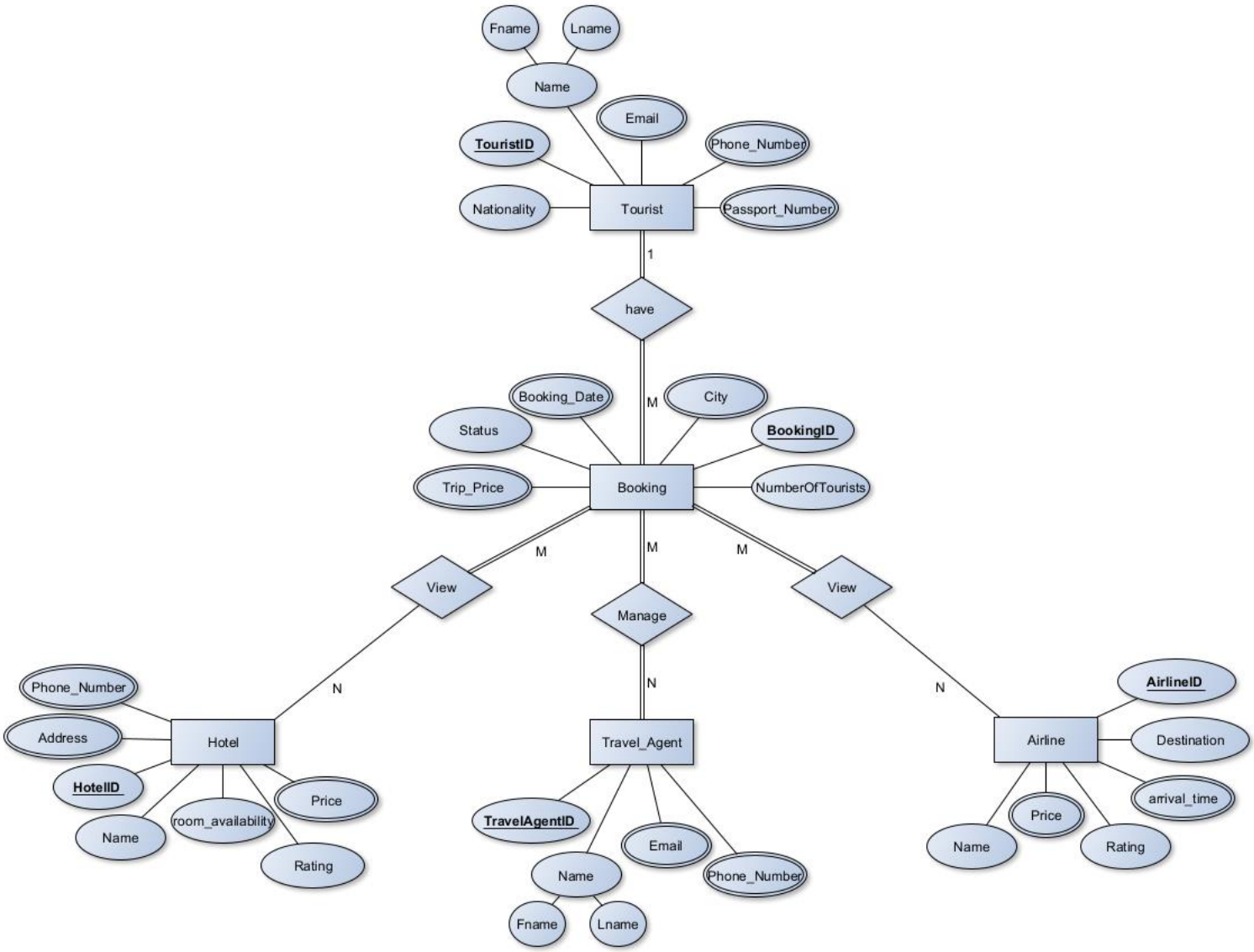
C. List of main reports

1. **Booking Reports:**
   Summary of all bookings made by tourists, including tour details, booking dates, and status.

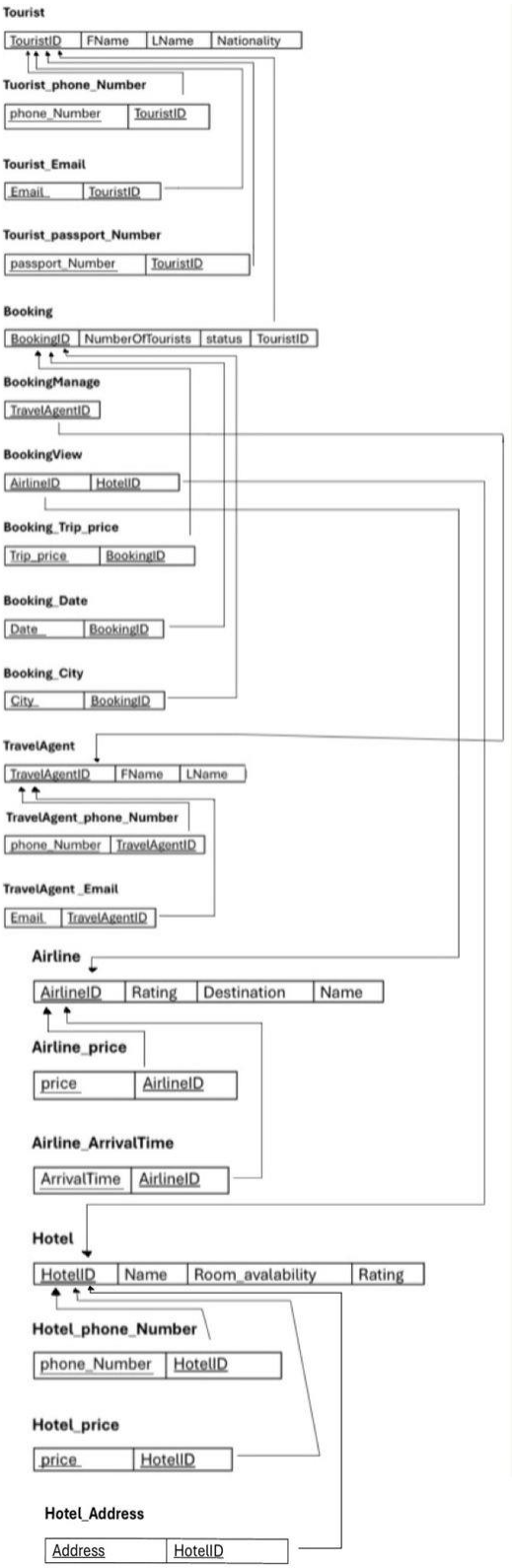
2. **Hotel Operations Reports:**
   Reports generated by hotels to optimize operations, including rates, prices, room availability.

3. **Flight Booking Reports:**
   Summary of flight bookings made by airlines, including flight details, arrival times, and Destination...

3. Database Conceptual Design (ERD)



4. Logical Design (Relational Schema)



5. Physical Design

Table name: Tourist

Column name	ToristID	FName	LName	Nationality
Key type	PK			
Not null=NN Unique =UN		NN	NN	NN
Check				
Data type	Number	Varchar2	varchar2	Varchar2
Length	10	30	30	50

```
Create table tourist (
TouristID number(10)  ,
Fname varchar2(30) not null ,
Lname varchar2(30) not null ,
Nationality varchar2(50) not null,
Primary key (touristID)
);
```

Table name: Tourist_phone_Number

Column name	Phone_number	ToristID
Key type	PK	FK
Not null=NN Unique =UN		
Check		
Data type	Number	Number
Length	10	10

```
CREATE TABLE Tourist_phone_Number (
   Phone_number NUMBER(10) CONSTRAINT Phone_number_pk PRIMARY KEY,
   TouristID NUMBER(10) CONSTRAINT TouristID_FK REFERENCES tourist(TouristID)
);
```

Table name: Tourist_Email

Column name	Email	ToristID
Key type	PK	FK
Not null=NN Unique =UN		
Check		
Data type	Varchar2	Number
Length	30	10

```
CREATE TABLE Tourist_Email(

   Email  varchar2(30) CONSTRAINT Email_pk PRIMARY KEY,

   TouristID NUMBER(10) CONSTRAINT TouristID_Email_FK REFERENCES tourist(TouristID)

);
```

Table name: Tourist_ Passport_Number

Column name	Passport_number	ToristID
Key type	PK	FK
Not null=NN Unique =UN	UN	
Check		
Data type	Number	Number
Length	10	10

```
CREATE TABLE Tourist_Passport_Number (

   Passport_Number  number(10) CONSTRAINT Passport_Number_pk PRIMARY KEY,

   TouristID NUMBER(10) CONSTRAINT TouristID_Passport_Number_FK REFERENCES tourist(TouristID)

);
```

Table name: Booking

Column name	BookingID	NumberOfTourists	Status	ToristID
Key type	PK			FK
Not null=NN Unique =UN		NN	NN	
Check				
Data type	Number	Number	Varchar2	Number
Length	10	10	20	10

```
CREATE TABLE Booking (
   BookingID NUMBER(10) PRIMARY KEY,
   NumberOfTourists NUMBER(10) NOT NULL,
   Status VARCHAR2(20) NOT NULL,
   TouristID NUMBER(10),
 CONSTRAINT touristID_booking_FK FOREIGN KEY (TouristID) REFERENCES Tourist(TouristID));
```

Table name: Booking_Trip_price

Column name	Trip_price	ToristID
Key type	PK	FK
Not null=NN Unique =UN		
Check		
Data type	Number	Number
Length	10	10

```
CREATE TABLE Booking_Trip_price (
   Trip_price NUMBER(10),
   TouristID NUMBER(10),
   CONSTRAINT PK_Trip PRIMARY KEY (Trip_price),
   CONSTRAINT FK_Trip_Tourist FOREIGN KEY (TouristID) REFERENCES Tourist(TouristID)
);
```

Table name: Booking_Date

Column name	Booking_date	ToristID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	TO_DATE	Number
Length		10

```
CREATE TABLE Booking_DATE (
   Booking_date DATE NOT NULL,
   TouristID NUMBER(10),
   CONSTRAINT PK_Booking PRIMARY KEY (Booking_date),
   CONSTRAINT FK_Booking_Tourist FOREIGN KEY (TouristID) REFERENCES Tourist(TouristID)
);
```

Table name: Booking_City

Column name	City	ToristID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	Varchar2	Number
Length	20	10

```
CREATE TABLE Booking_city (
   City VARCHAR2(20),
   TouristID NUMBER(10),
   CONSTRAINT PK_City PRIMARY KEY (City),
   CONSTRAINT FK_City_Tourist FOREIGN KEY (TouristID) REFERENCES Tourist(TouristID)
);
```

Table name: Travel_agent

Column name	TravelAgentID	FName	LName
Key type	PK		
Not null=NN Unique =UN		NN	NN
Check			
Data type	Number	Varchar2	Varchar2
Length	10	30	30

```
CREATE TABLE TravelAgent (
   TravelAgentID NUMBER(10) PRIMARY KEY,
   FName VARCHAR2(30) NOT NULL,
   LName VARCHAR2(30) NOT NULL
);
```

Table name: TravelAgent_phone_Number

Column name	Phone_number	TravelAgentID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	Number	Number
Length	10	10

```
CREATE TABLE TravelAgent_Phone_number (

   Phone_number NUMBER(10) PRIMARY KEY,

   TravelAgentID NUMBER(10) NOT NULL,

CONSTRAINT FK_TravelAgent_Phone FOREIGN KEY (TravelAgentID) REFERENCES
TravelAgent(TravelAgentID)

);
```

Table name: TravelAgent_Email

Column name	Email	TravelAgentID
Key type	PK	FK
Not null=NN Unique =UN		
Check		
Data type	Varchar2	Number
Length	30	10

```
CREATE TABLE TravelAgent_Email (
   Email VARCHAR2(30) PRIMARY KEY,
   TravelAgentID NUMBER(10) NOT NULL,
   CONSTRAINT FK_TravelAgent_Email_TravelAgentID FOREIGN KEY (TravelAgentID) REFERENCES
TravelAgent(TravelAgentID)
);
```

Name table: Airline

Column name	AirlineID	Name	Rating	Destination
Key type	PK			
Not null=NN Unique =UN		NN	NN	NN
Check				
Data type	Number	Varchar 2	Char	Varchar2
Length	10	20	20	30

```
CREATE TABLE Airline (
   AirlineID NUMBER(10) PRIMARY KEY,
   Name VARCHAR2(20) NOT NULL,
   Rating CHAR(2) NOT NULL,
   Destination VARCHAR2(30) NOT NULL
);
```

Name table: Airline_price

Columnname	Price	AirlineID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	Number	Number
Length	10	10

```
CREATE TABLE Airline_price (
   Price NUMBER(10) NOT NULL,
   AirlineID NUMBER(10),
   CONSTRAINT PK_Flight PRIMARY KEY (Price),
   CONSTRAINT FK_Flight_Airline FOREIGN KEY (AirlineID) REFERENCES Airline(AirlineID)
);
```

Name table: Airline_ArrivalTime

Column name	Arrival_time	AirlineID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	TO_DATE	Number
Length		10

```
CREATE TABLE Airline_Arrivaltime (
   Arrival_time DATE NOT NULL,
   AirlineID NUMBER(10),
   CONSTRAINT PK_Flight_Arrival PRIMARY KEY (Arrival_time),
   CONSTRAINT FK_Flight_Arrival_Airline FOREIGN KEY (AirlineID) REFERENCES Airline(AirlineID)
);
```

Table name: Hotel

Column name	HotlelID	Name	Room_availability	Rating
Key type	PK			
Not null=NN Unique =UN		NN	NN	
Check				
Data type	Number	Varchar2	Char	Varchar2.
Length	10	30	20	20

```
CREATE TABLE Hotel (
   HotelID NUMBER(10) PRIMARY KEY,
   Name VARCHAR2(30) NOT NULL,
   Room_availability CHAR(20) NOT NULL,
   Rating VARCHAR2(20) NOT NULL
);
```

Table name: Hotel_phone_Number

Column name	Phone_number	HotlelID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	Number	Number.
Length	10	10

```
CREATE TABLE Hotel_Phone (
   Phone_number NUMBER(10) PRIMARY KEY,
   HotelID NUMBER(10) NOT NULL,
   CONSTRAINT FK_Hotel_Phone_HotelID FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)
);
```

Table name: Hotel_Price

Column name	Price	HotlelID
Key type	PK	FK
Not null=NN Unique =UN	NN	
Check		
Data type	Number	Number.
Length	10	10

```
CREATE TABLE Hotel_Price (
   Price NUMBER(10) PRIMARY KEY,
   HotelID NUMBER(10) NOT NULL,
   CONSTRAINT FK_Hotel_Price_HotelID FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)
);
```

Table name: Hotel_Address

Column name	Address	HotIelID
Key type	PK	FK
Not null=NN Unique =UN	UN	
Check		
Data type	Varchar2	Number.
Length	20	10

```
CREATE TABLE Hotel_Address (
   Address VARCHAR2(20),
   HotelID NUMBER(10),
   CONSTRAINT PK_Hotel_Address PRIMARY KEY (Address),
   CONSTRAINT FK_Hotel_Address_HotelID FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)
);
```

Table name: BookingManage

Columnname	TravelAgentID
Key type	FK
Not null=NN Unique =UN	
Check	
Data type	Number
Length	10

```
CREATE TABLE BookingManage (
   TravelAgentID NUMBER(10),
   CONSTRAINT FK_Booking_TravelAgentID FOREIGN KEY (TravelAgentID) REFERENCES
TravelAgent(TravelAgentID)
);
```

Table name: BookingView

Columnname	AirlineID	HotlelID
Key type	FK	FK
Not null=NN Unique =UN		
Check		
Data type	Number	Number
Length		10

```
CREATE TABLE BookingView (
   AirlineID NUMBER(10),
   HotelID NUMBER(10),
   CONSTRAINT FK_FlightHotel_AirlineID FOREIGN KEY (AirlineID) REFERENCES Airline(AirlineID),
   CONSTRAINT FK_FlightHotel_HotelID FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)
);
```

6. Populate Database

Tourist

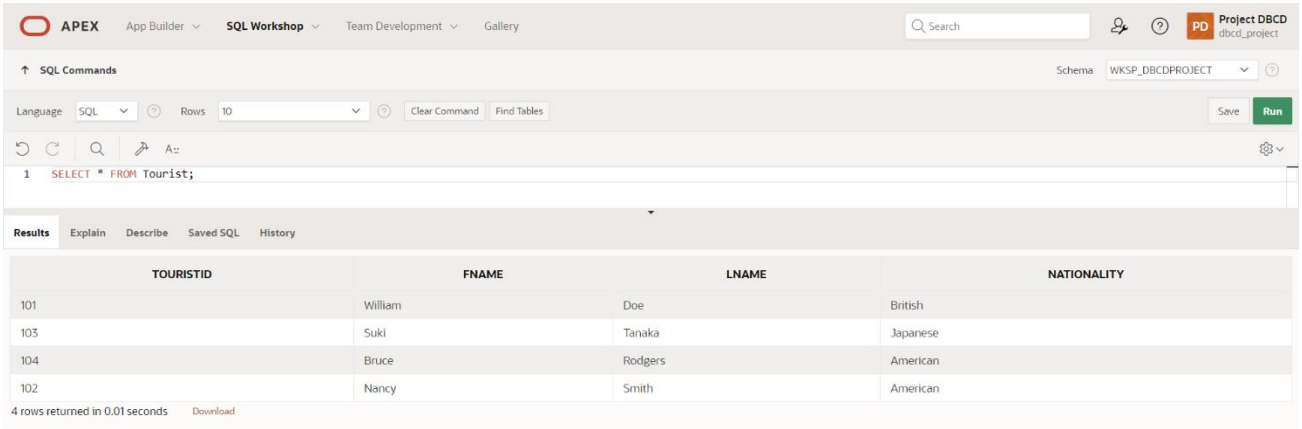
INSERT INTO Tourist (TouristID, Fname, Lname, Nationality)
VALUES (101, 'William', 'Doe', 'British');

TouristID	FName	LName	Nationality
101	William	Doe	British
102	Nancy	Smith	American
103	Suki	Tanaka	Japanese
104	Bruce	Rodgers	American

INSERT INTO Tourist (TouristID, Fname, Lname, Nationality)
VALUES (102, 'Nancy', 'Smith', 'American');

INSERT INTO Tourist (TouristID, Fname, Lname, Nationality)
VALUES (103, 'Suki', 'Tanaka', 'Japanese');

INSERT INTO Tourist (TouristID, Fname, Lname, Nationality)
VALUES (104, 'Bruce', 'Rodgers', 'American');



Tourist_phone_Number

TouristID	Phone_Num
101	5677437755
102	1155589944
103	2346569998
104	5873679977

INSERT INTO Tourist_Phone_number (Phone_number, TouristID)

VALUES (5677437755, 101);

INSERT INTO Tourist_Phone_number (Phone_number, TouristID)

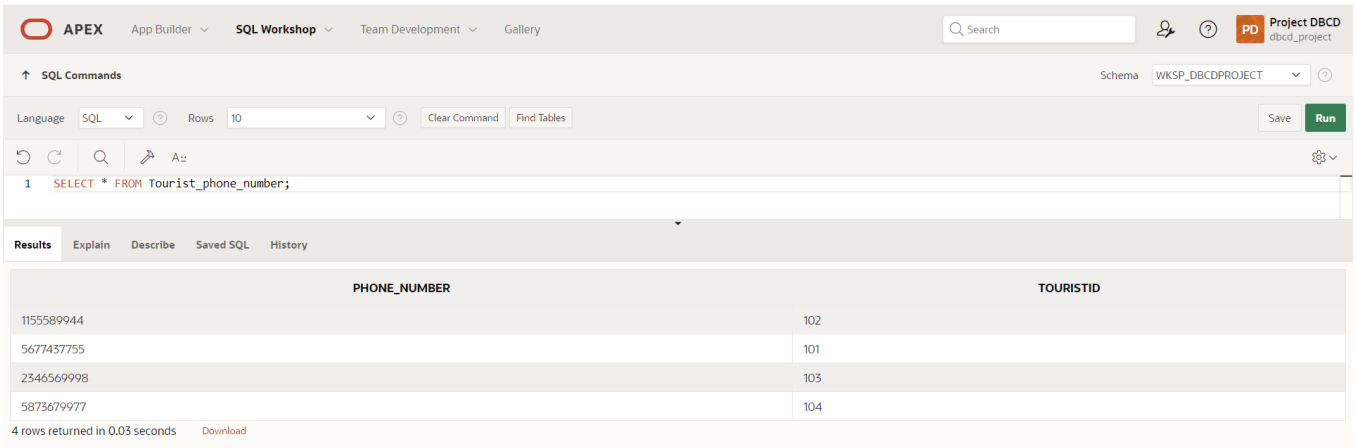
VALUES (1155589944, 102);

INSERT INTO Tourist_Phone_number (Phone_number, TouristID)

VALUES (2346569998, 103);

INSERT INTO Tourist_Phone_number (Phone_number, TouristID)

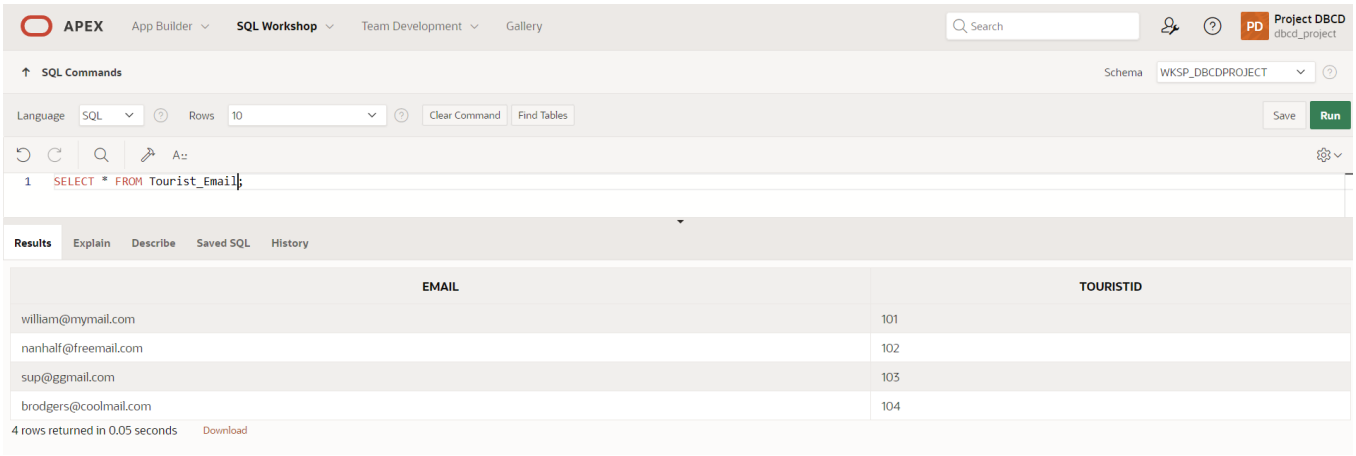
VALUES (5873679977, 104);



Tourist_Email

TouristID	Email
101	William@mymail.com
102	nanhalf@freemail.com
103	Sup@ggmail.com
104	brodgers@coolmail.com

```
INSERT INTO Tourist_Email (Email, TouristID)
VALUES ('william@mymail.com', 101);
INSERT INTO Tourist_Email (Email, TouristID)
VALUES ('nanhalf@freemail.com', 102);
INSERT INTO Tourist_Email (Email, TouristID)
VALUES ('sup@ggmail.com', 103);
INSERT INTO Tourist_Email (Email, TouristID)
VALUES ('brodgers@coolmail.com', 104);
```



Tourist_passport_Number

TouristID	Passport_Num
101	560333040
102	500304988
103	123456763
104	478553459

INSERT INTO Tourist_Passport_number (Passport_number, TouristID)

VALUES (560333040, 101);

INSERT INTO Tourist_Passport_number (Passport_number, TouristID)

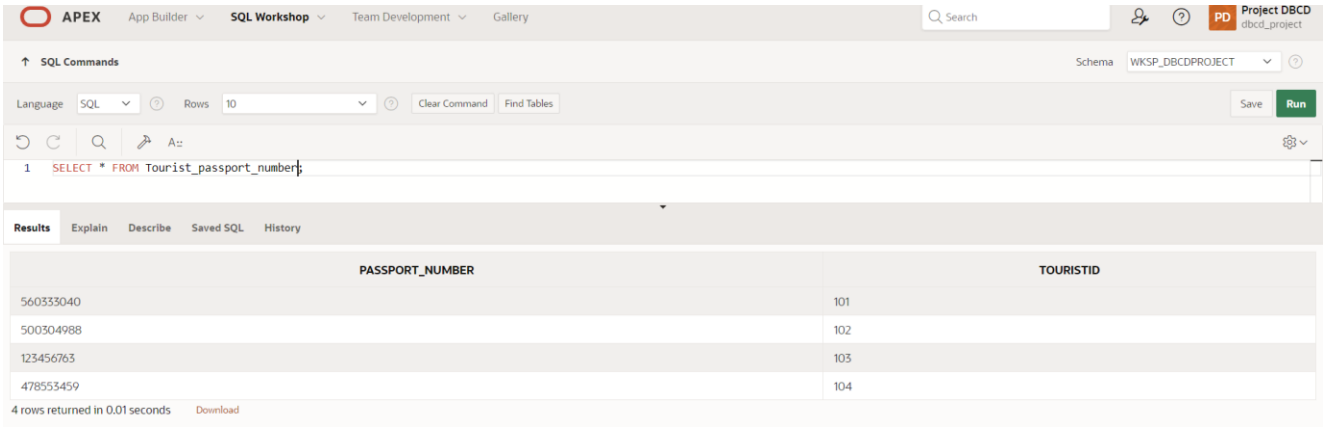
VALUES (500304988, 102);

INSERT INTO Tourist_Passport_number (Passport_number, TouristID)

VALUES (123456763, 103);

INSERT INTO Tourist_Passport_number (Passport_number, TouristID)

VALUES (478553459, 104);



Booking

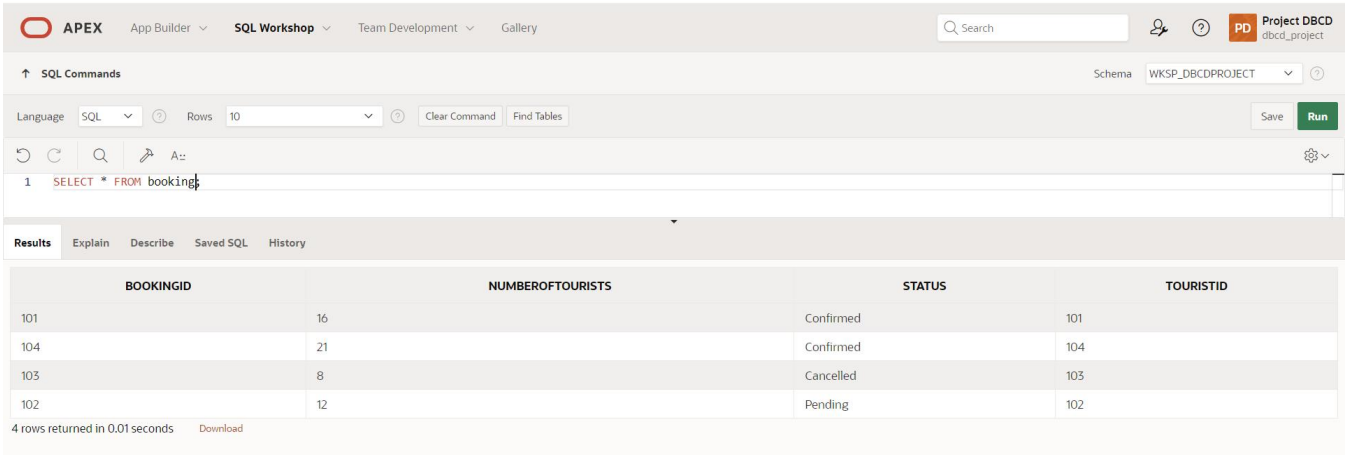
BOOKINGID	NUMOFTOURISTS	STATUS	TouristID
101	16	Confirmed	101
102	12	Pending	102
103	8	Cancelled	103
104	21	Confirmed	104

INSERT INTO Booking (BookingID, NumberOfTourists, Status, TouristID)
VALUES (101, 16, 'Confirmed', 101);

INSERT INTO Booking (BookingID, NumberOfTourists, Status, TouristID)
VALUES (102, 12, 'Pending', 102);

INSERT INTO Booking (BookingID, NumberOfTourists, Status, TouristID)
VALUES (103, 8, 'Cancelled', 103);

INSERT INTO Booking (BookingID, NumberOfTourists, Status, TouristID)
VALUES (104, 21, 'Confirmed', 104);



Booking_trip_price

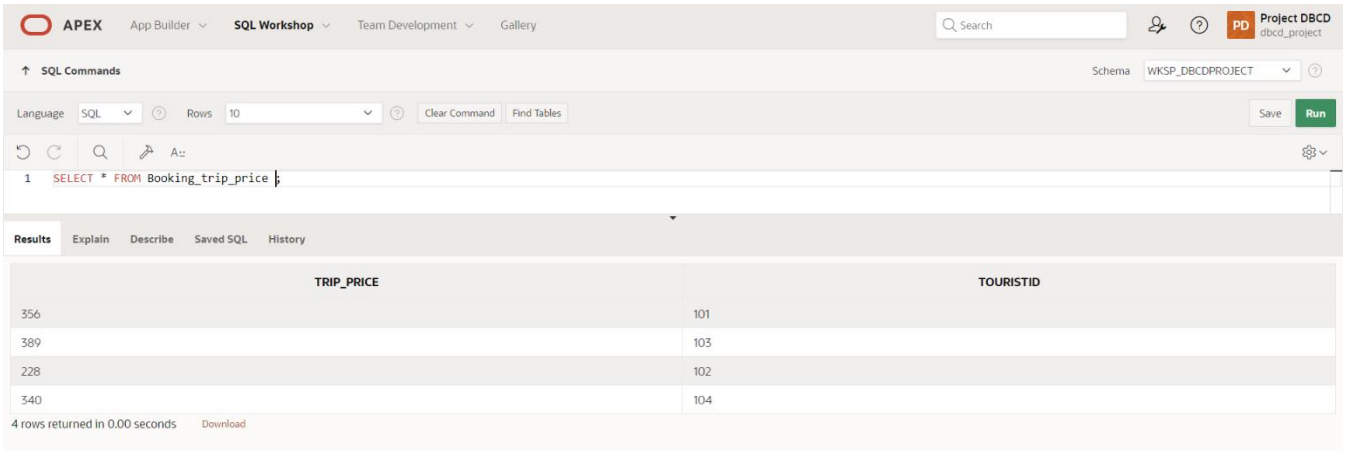
TRIP_PRICE	BOOKINGID
356	101
228	102
389	103
340	104

INSERT INTO Booking_Trip_Price (TouristID, Trip_price)
VALUES (101, 356);

INSERT INTO Booking_Trip_Price (TouristID, Trip_price)
VALUES (102, 228);

INSERT INTO Booking_Trip_Price (TouristID, Trip_price)
VALUES (103, 389);

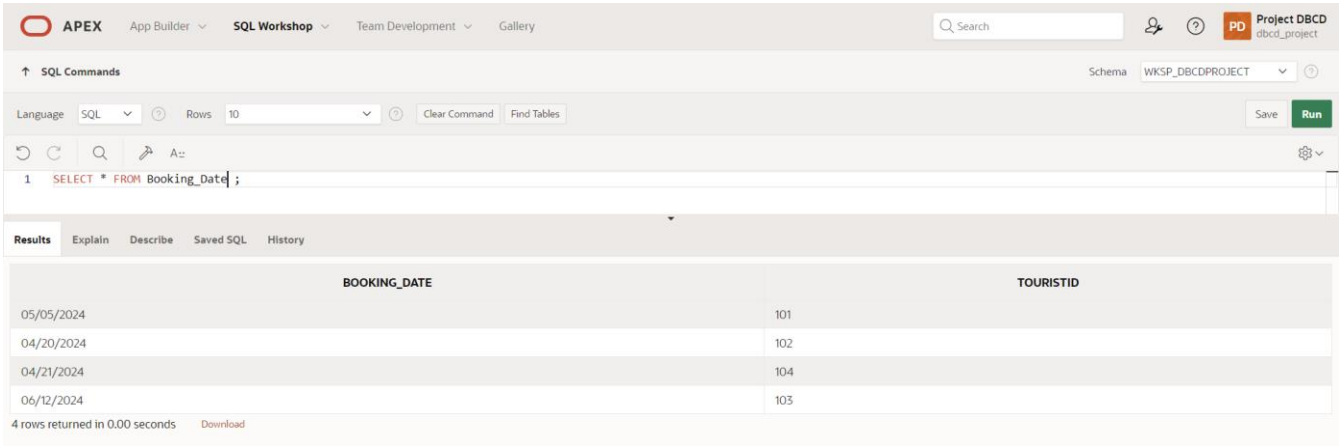
INSERT INTO Booking_Trip_Price (TouristID, Trip_price)
VALUES (104, 340);



Booking_Date

BOOKING_DATE	BOOKINGID
5/5/2024	101
4/20/2024	102
6/12/2024	103
4/21/2024	104

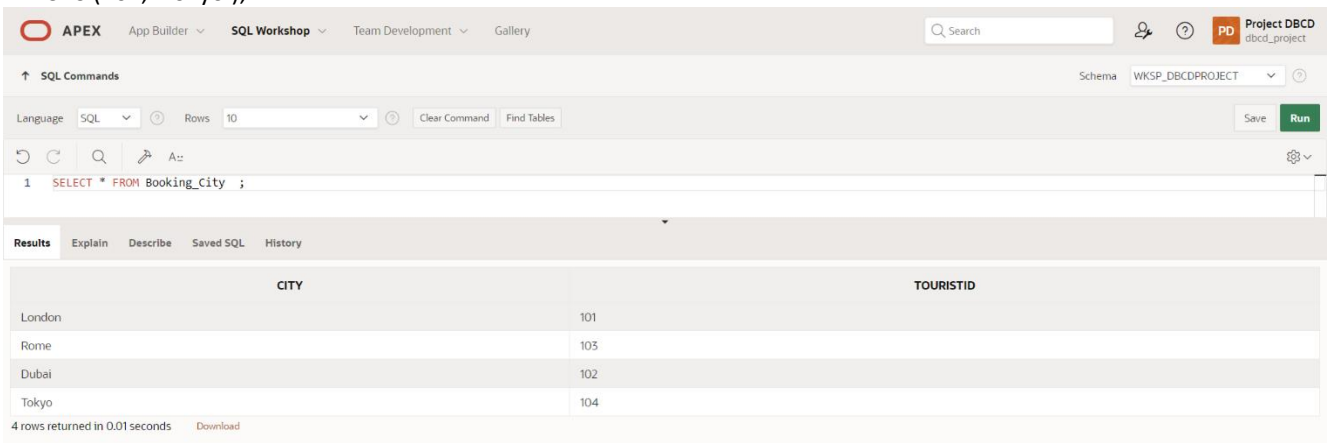
```
INSERT INTO Booking_Date (TouristID, Booking_date)
VALUES (101, TO_DATE('2024-05-05', 'YYYY-MM-DD'));

INSERT INTO Booking_Date (TouristID, Booking_date)
VALUES (102, TO_DATE('2024-04-20', 'YYYY-MM-DD'));

INSERT INTO Booking_Date (TouristID, Booking_date)
VALUES (103, TO_DATE('2024-06-12', 'YYYY-MM-DD'));

INSERT INTO Booking_Date (TouristID, Booking_date)
VALUES (104, TO_DATE('2024-04-21', 'YYYY-MM-DD'));
```



Booking_City

CITY	BOOKINGID
London	101
Dubai	102
Rome	103
Tokyo	104

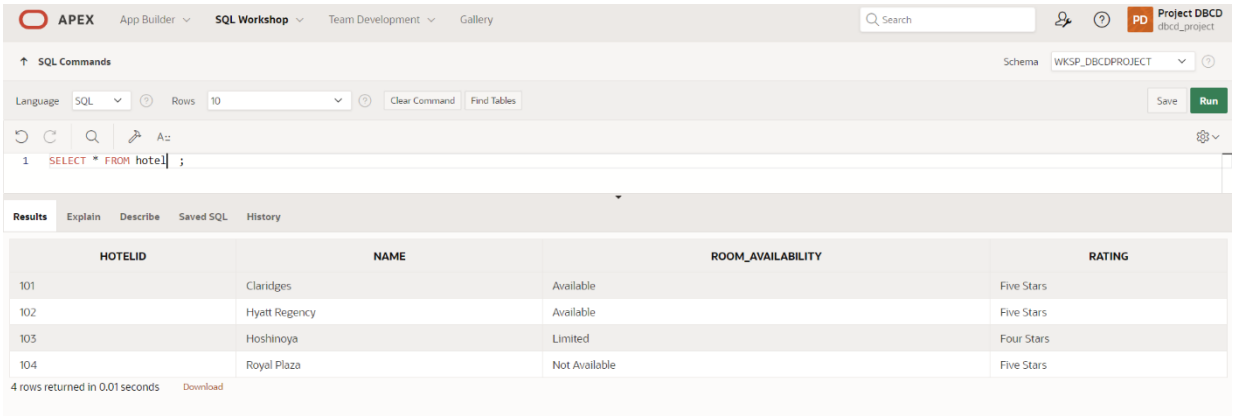
```
INSERT INTO Booking_City (TouristID, City)
VALUES (101, 'London');
INSERT INTO Booking_City (TouristID, City)
VALUES (102, 'Dubai');
INSERT INTO Booking_City (TouristID, City)
VALUES (103, 'Rome');
INSERT INTO Booking_City (TouristID, City)
VALUES (104, 'Tokyo');
```



Hotel

HOTELID	NAME	ROOM_AVAILBILITY	RATING
101	Claridges	Available	Five Stars
102	Hyatt Regency	Available	Five Stars
103	Hoshinoya	Limited	Four Stars
104	Royal Plaza	No Available	Five Stars

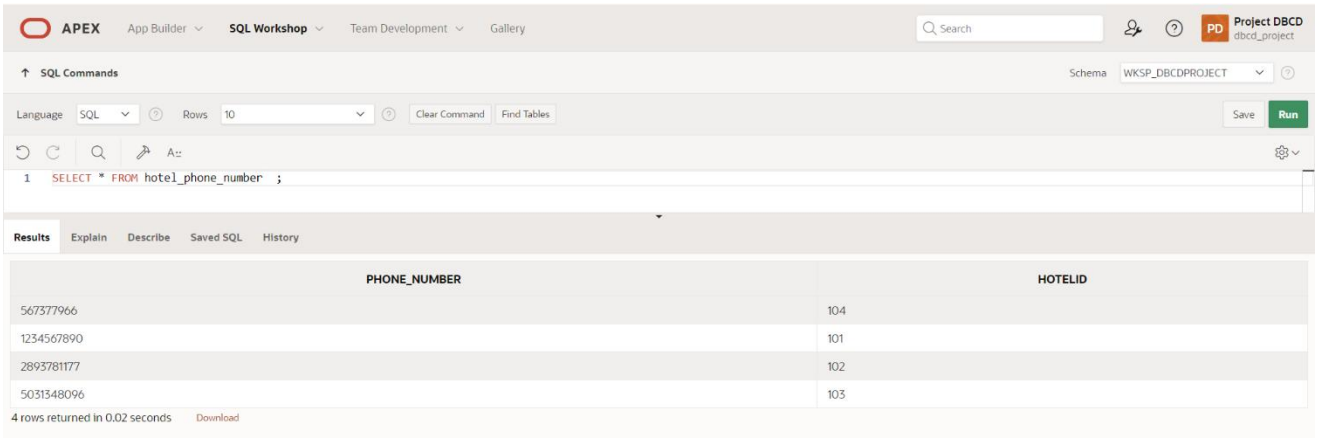
```
INSERT INTO Hotel (HotelID, Name, Room_availability, Rating)
VALUES (101, 'Claridges', 'Available', 'Five Stars');
INSERT INTO Hotel (HotelID, Name, Room_availability, Rating)
VALUES (102, 'Hyatt Regency', 'Available', 'Five Stars');
INSERT INTO Hotel (HotelID, Name, Room_availability, Rating)
VALUES (103, 'Hoshinoya', 'Limited', 'Four Stars');
INSERT INTO Hotel (HotelID, Name, Room_availability, Rating)
VALUES (104, 'Royal Plaza', 'Not Available', 'Five Stars');
```



Hotel_phone_number

PHONE_NUM	HOTELID
1234567890	101
2893781177	102
5031348096	103
567377966	104

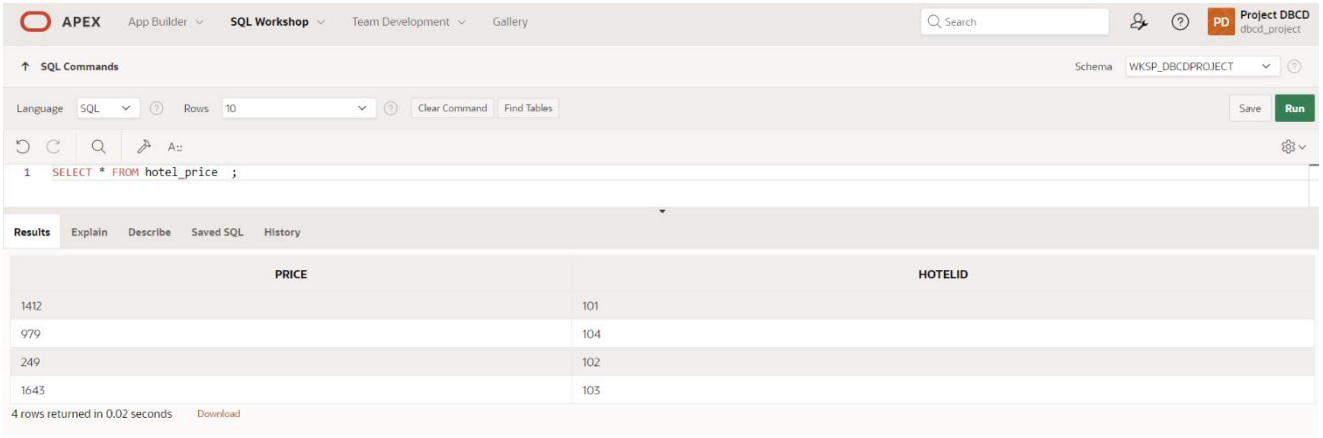
INSERT INTO Hotel_Phone_Number (Phone_number, HotelID)
VALUES (1234567890, 101);
INSERT INTO Hotel_Phone_Number (Phone_number, HotelID)
VALUES (2893781177, 102);
INSERT INTO Hotel_Phone_Number (Phone_number, HotelID)
VALUES (5031348096, 103);
INSERT INTO Hotel_Phone_Number (Phone_number, HotelID)
VALUES (567377966, 104);



Hotel_price

PRICE	HOTELID
1412	101
249	102
1643	103
979	104

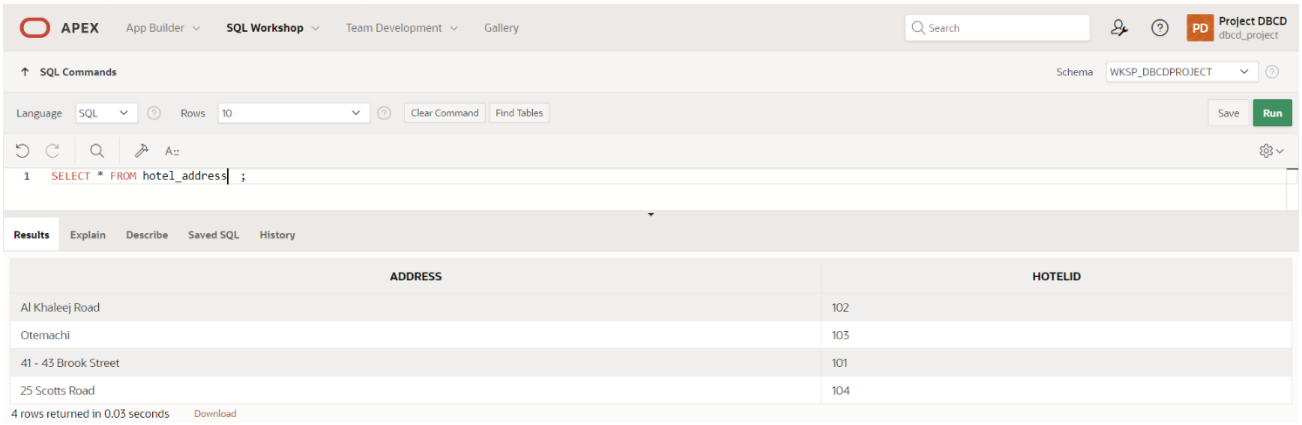
```
INSERT INTO Hotel_Price (HotelID, Price)
VALUES (101, 1412);
INSERT INTO Hotel_Price (HotelID, Price)
VALUES (102, 249);
INSERT INTO Hotel_Price (HotelID, Price)
VALUES (103, 1643);
INSERT INTO Hotel_Price (HotelID, Price)
VALUES (104, 979);
```



Hotel_Address

ADDRESS	HOTELID
'41 - 43 Brook Street'	101
'Al Khaleej Road'	102
'Otemachi'	103
'25 Scotts Road'	104

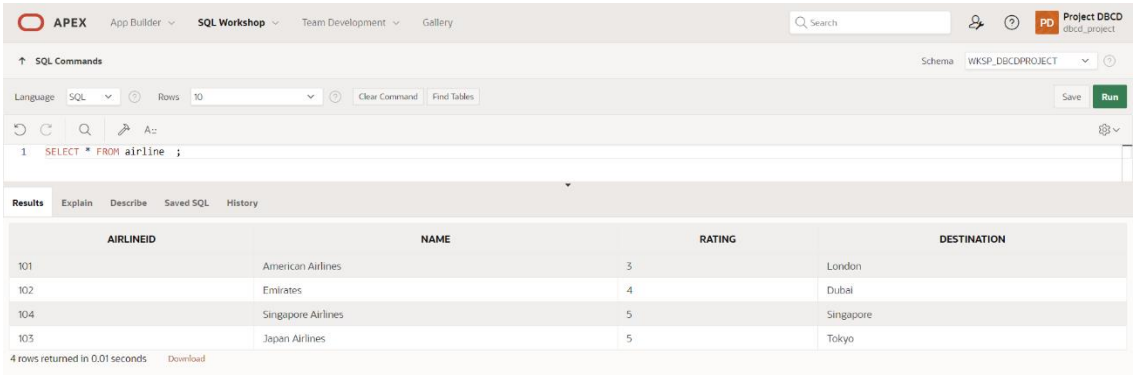
```
INSERT INTO Hotel_Address (HotelID, Address)
VALUES (101, '41 - 43 Brook Street');
INSERT INTO Hotel_Address (HotelID, Address)
VALUES (102, 'Al Khaleej Road');
INSERT INTO Hotel_Address (HotelID, Address)
VALUES (103, 'Otemachi');
INSERT INTO Hotel_Address (HotelID, Address)
VALUES (104, '25 Scotts Road');
```



Airline

AirlineID	Rating	Name	Destination
101	3	American Airlines	London
102	4	Emirates	Dubai
103	5	Japan Airlines	Tokyo
104	5	Singapore Airlines	Singapore

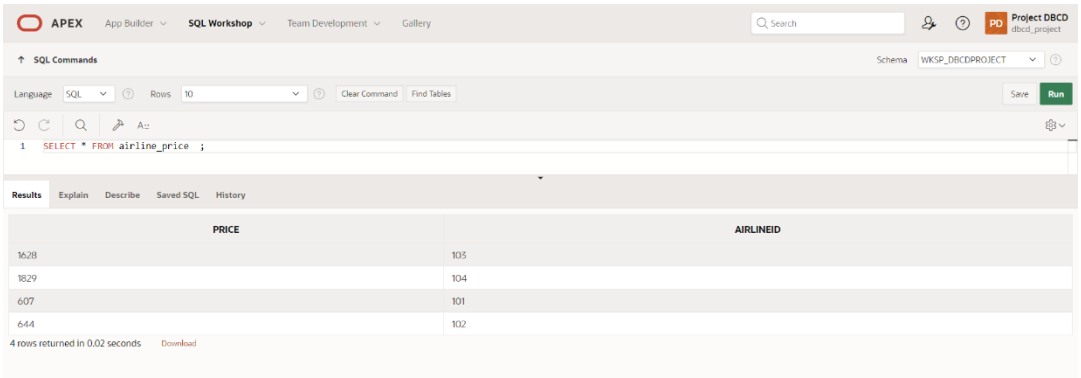
```
INSERT INTO Airline (AirlineID, Rating, Name, Destination)
VALUES (101, 3, 'American Airlines', 'London');
INSERT INTO Airline (AirlineID, Rating, Name, Destination)
VALUES (102, 4, 'Emirates', 'Dubai');
INSERT INTO Airline (AirlineID, Rating, Name, Destination)
VALUES (103, 5, 'Japan Airlines', 'Tokyo');
INSERT INTO Airline (AirlineID, Rating, Name, Destination)
VALUES (104, 5, 'Singapore Airlines', 'Singapore');
```



Airline_price

Price	AirlineID
607	101
644	102
1628	103
1829	104

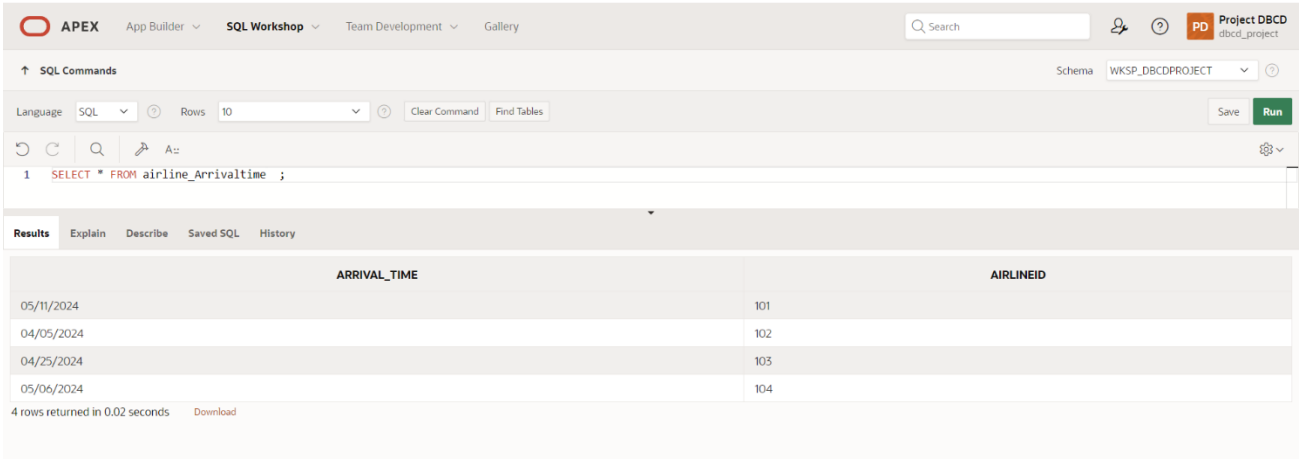
```
INSERT INTO Airline_Price (Price, AirlineID)
VALUES (607, 101);
INSERT INTO Airline_Price (Price, AirlineID)
VALUES (644, 102);
INSERT INTO Airline_Price (Price, AirlineID)
VALUES (1628, 103);
INSERT INTO Airline_Price (Price, AirlineID) VALUES (1829, 104);
```



Airline_ArrivalTime

Arrival_time	AirlineID
05/11/2024	101
04/05/2024	102
04/25/2024	103
05/06/2024	104

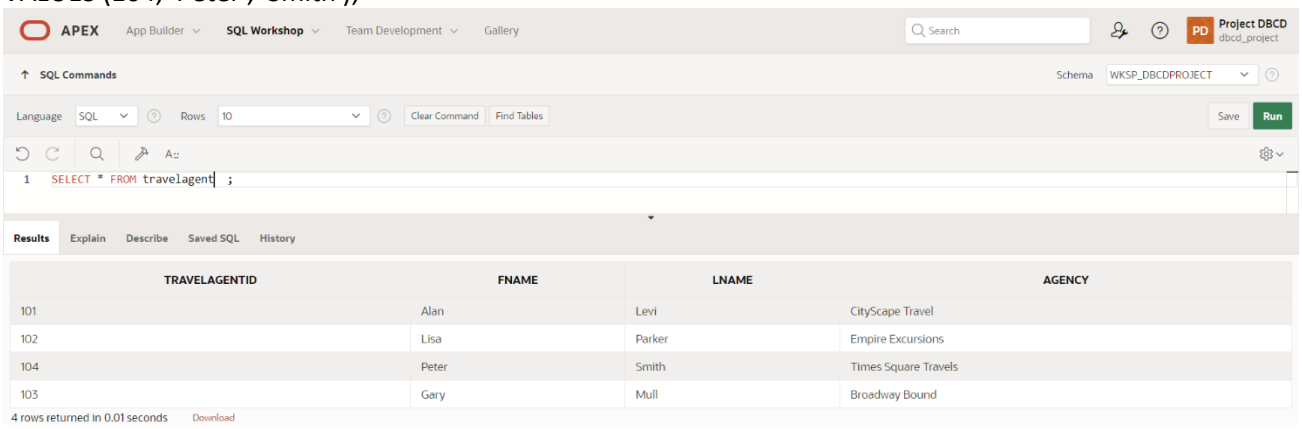
```
INSERT INTO Airline_ArrivalTime (Arrival_time, AirlineID)
VALUES (TO_DATE('05/11/2024', 'MM/DD/YYYY'), 101);
INSERT INTO Airline_ArrivalTime (Arrival_time, AirlineID)
VALUES (TO_DATE('04/05/2024', 'MM/DD/YYYY'), 102);
INSERT INTO Airline_ArrivalTime (Arrival_time, AirlineID)
VALUES (TO_DATE('04/25/2024', 'MM/DD/YYYY'), 103);
INSERT INTO Airline_ArrivalTime (Arrival_time, AirlineID)
VALUES (TO_DATE('05/06/2024', 'MM/DD/YYYY'), 104);
```



TRAVELAGENT

TRAVELAGENTID	FNAME	LNAME
101	Alan	Levi
102	Lisa	Parker
103	Gary	Mull
104	Peter	Smith

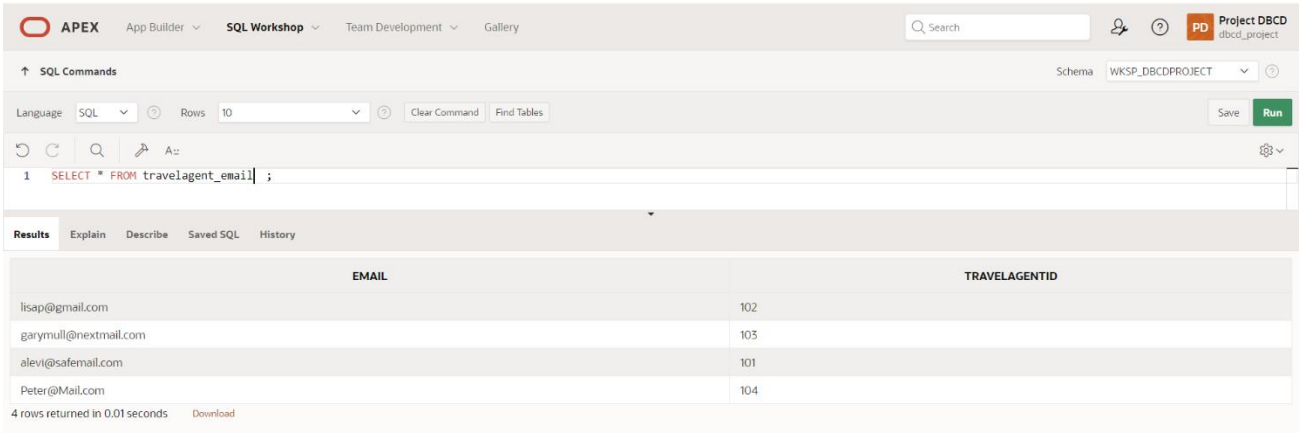
```
INSERT INTO TravelAgent (TravelAgentID, Fname, Lname)
VALUES (101, 'Alan', 'Levi');
INSERT INTO TravelAgent (TravelAgentID, Fname, Lname)
VALUES (102, 'Lisa', 'Parker';

INSERT INTO TravelAgent (TravelAgentID, Fname, Lname)
VALUES (103, 'Gary', 'Mull');
INSERT INTO TravelAgent (TravelAgentID, Fname, Lname)
VALUES (104, 'Peter', 'Smith');
```



TRAVELAGENT_Email

EMAIL	TRAVELAGENTID
alevi@safemail.com	101
lisap@gmail.com	102
garymull@nextmail.com	103
Peter@Mail.com	104

```
INSERT INTO TravelAgent_Email (Email, TravelAgentID)
VALUES ('alevi@safemail.com', 101);
INSERT INTO TravelAgent_Email (Email, TravelAgentID)
VALUES ('lisap@gmail.com', 102);
INSERT INTO TravelAgent_Email (Email, TravelAgentID)
VALUES ('garymull@nextmail.com', 103);
INSERT INTO TravelAgent_Email (Email, TravelAgentID)
VALUES ('Peter@Mail.com', 104);
```



TRAVELAGENT_phone_number

PHONE_NUMBER	TRAVELAGENTID
7894432277	101
1234567632	102
4112335565	103
5877849977	104

INSERT INTO TravelAgent_Phone_Number (Phone_number, TravelAgentID)

VALUES (7894432277, 101);

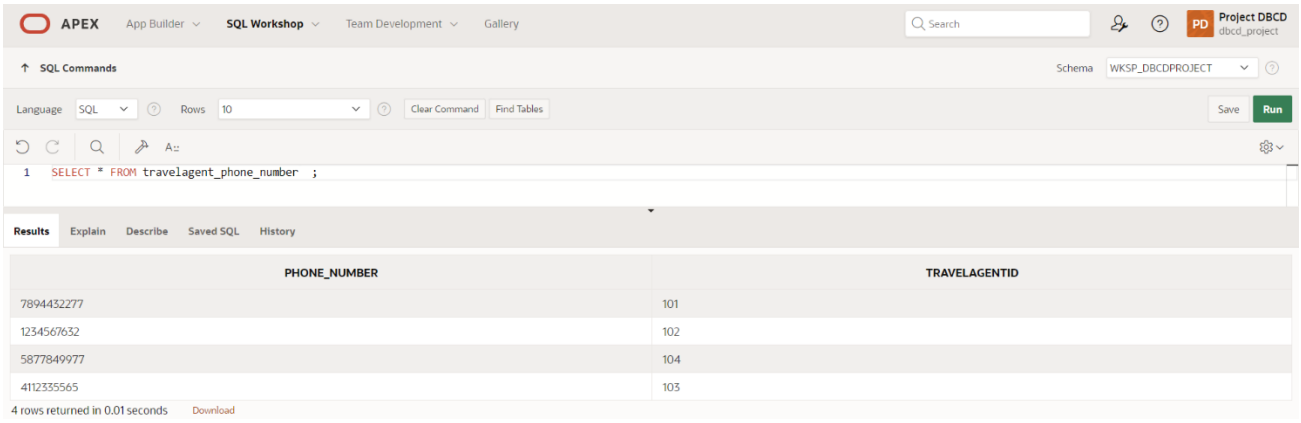
INSERT INTO TravelAgent_Phone_Number (Phone_number, TravelAgentID)

VALUES (1234567632, 102);

INSERT INTO TravelAgent_Phone_Number (Phone_number, TravelAgentID)

VALUES (4112335565, 103);

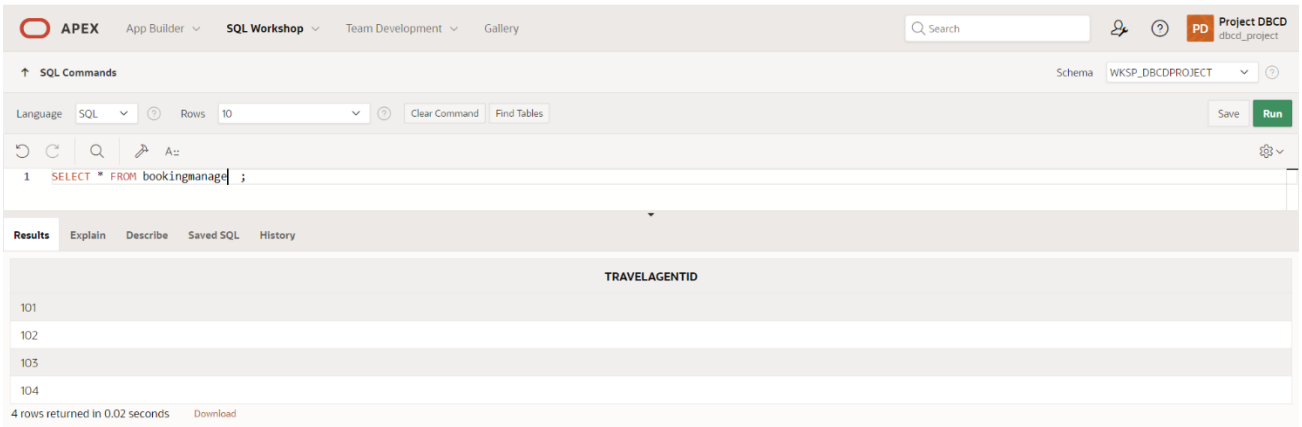
INSERT INTO TravelAgent_Phone_Number (Phone_number, TravelAgentID) VALUES (5877849977, 104);



BookingManage

TravelAgentID
101
102
103
104

INSERT INTO BookingManage (TravelAgentID)
VALUES (101);
INSERT INTO BookingManage (TravelAgentID)
VALUES (102);
INSERT INTO BookingManage (TravelAgentID)
VALUES (103);
INSERT INTO BookingManage (TravelAgentID)
VALUES (104);



BookingView

AirlineID	HotelID
101	101
102	102
103	103
104	104

INSERT INTO BookingView (AirlineID, HotelID)

VALUES (101, 101);

INSERT INTO BookingView (AirlineID, HotelID)

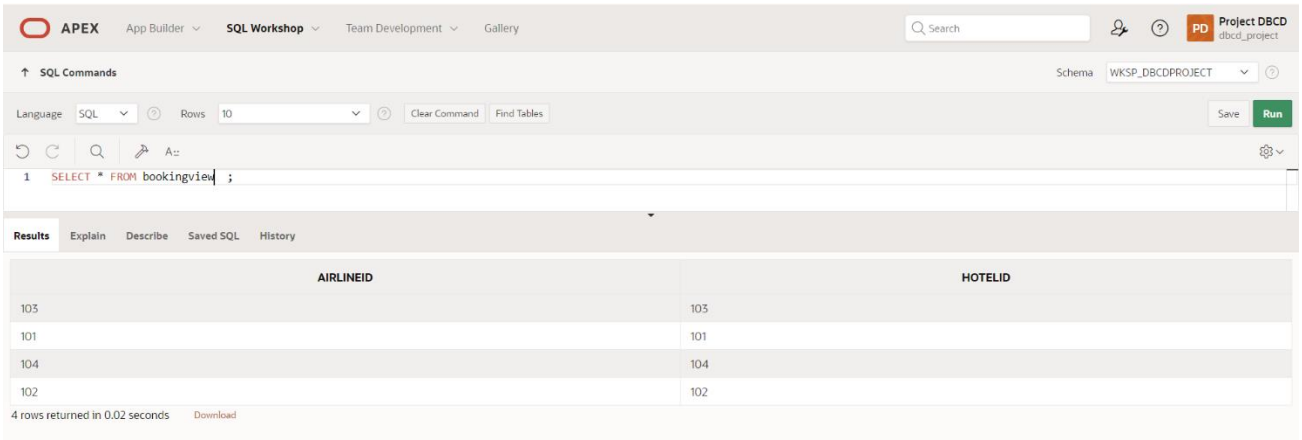
VALUES (102, 102);

INSERT INTO BookingView (AirlineID, HotelID)

VALUES (103, 103);

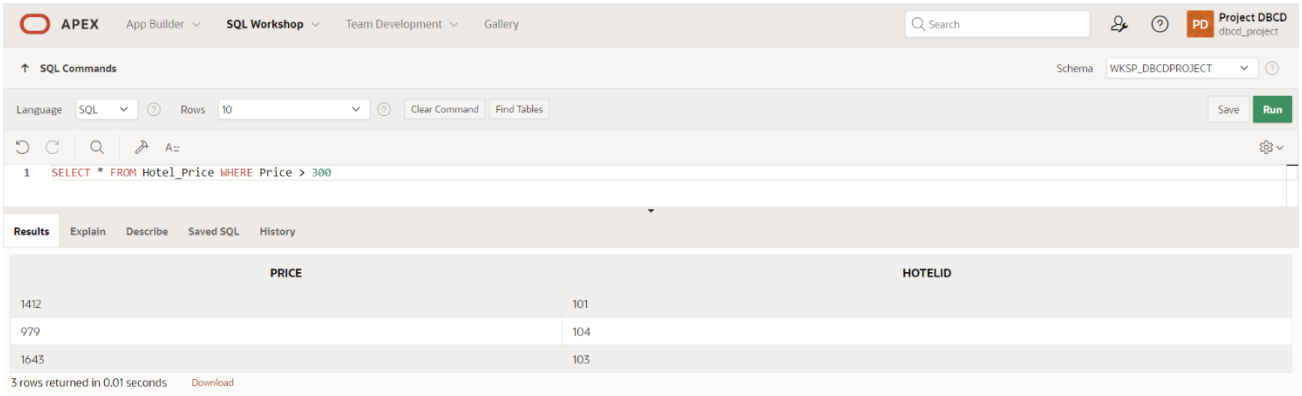
INSERT INTO BookingView (AirlineID, HotelID)

VALUES (104, 104);

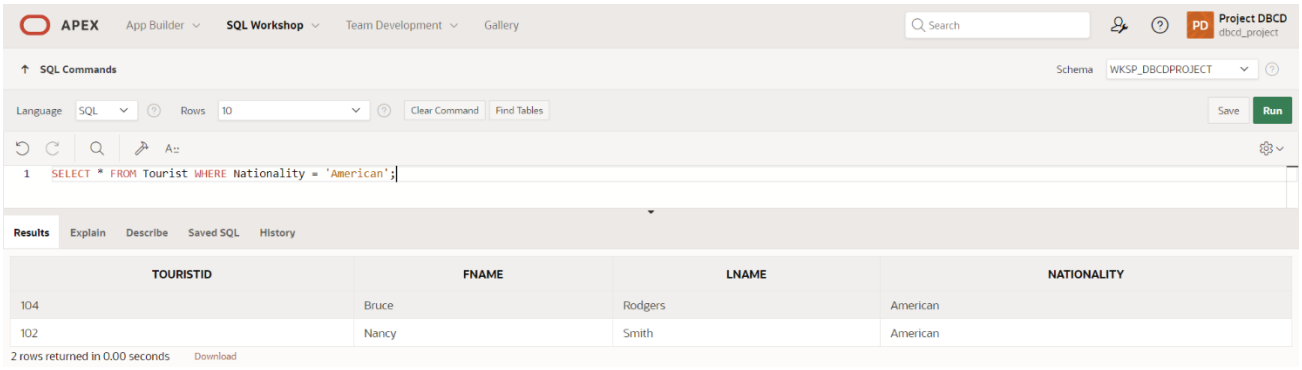


7. Queries

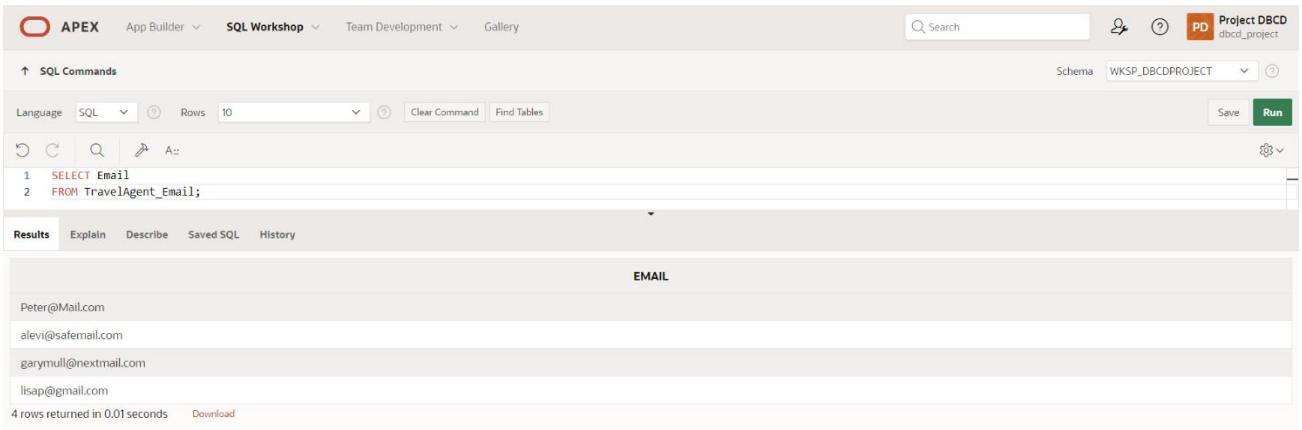
SELECT * FROM Hotel_Price WHERE Price > 300



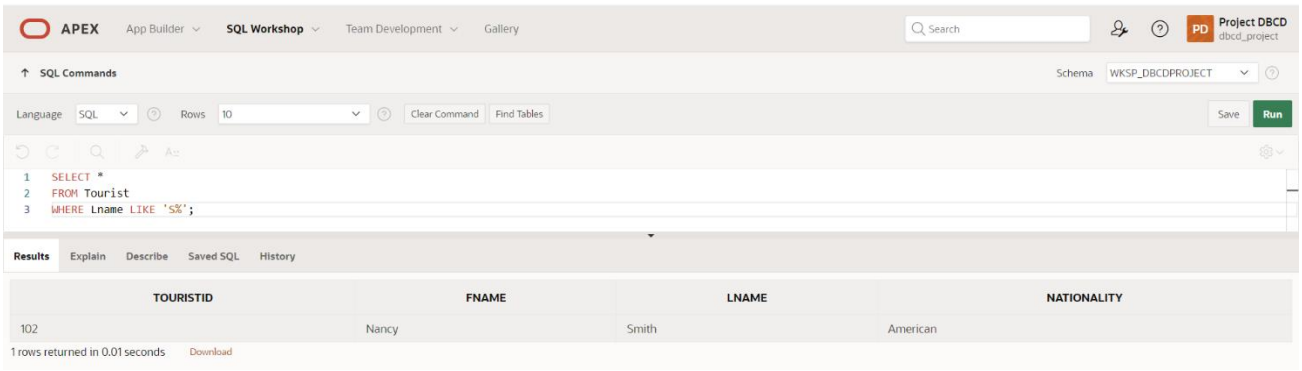
SELECT * FROM Tourist WHERE Nationality = 'American';



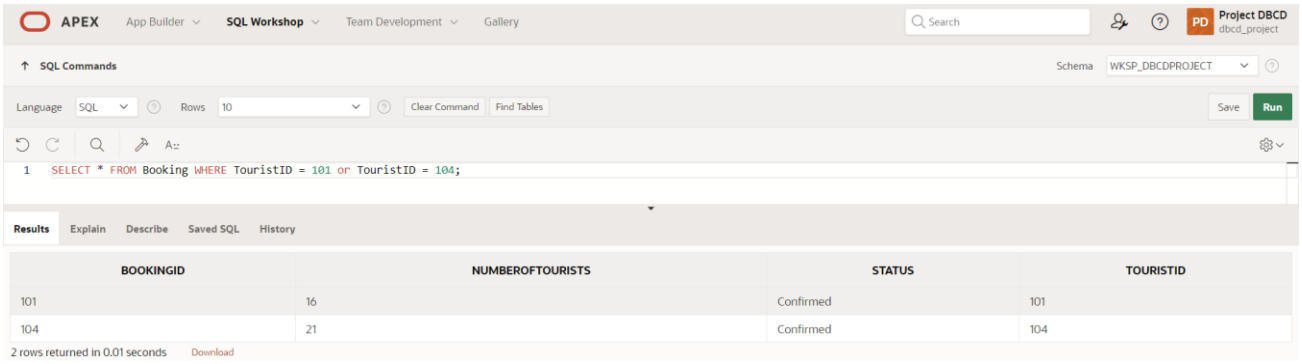
SELECT Email FROM TravelAgent_Email;



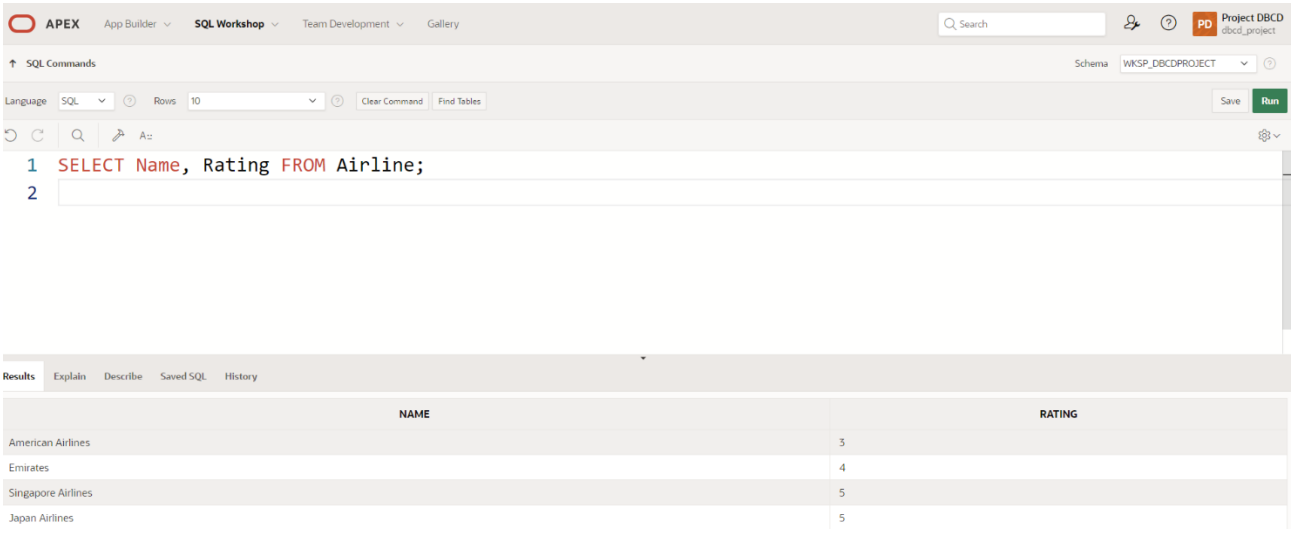
SELECT * FROM Tourist WHERE Lname LIKE 'S%';



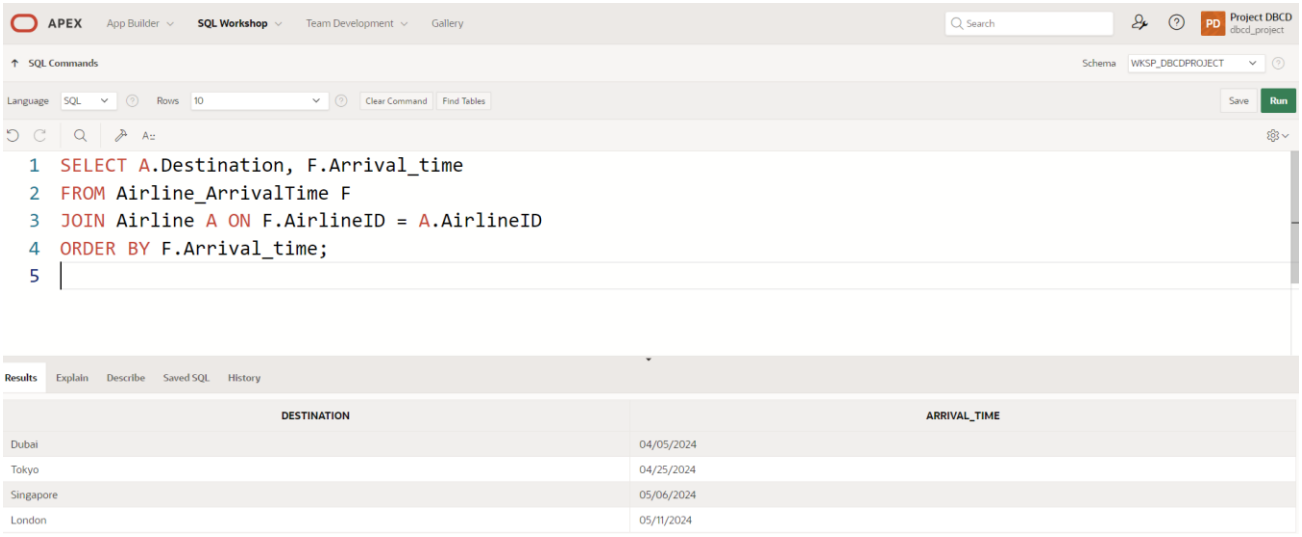
SELECT * FROM Booking WHERE TouristID = 101 or TouristID = 104;



Retrieve the names and ratings of airlines.



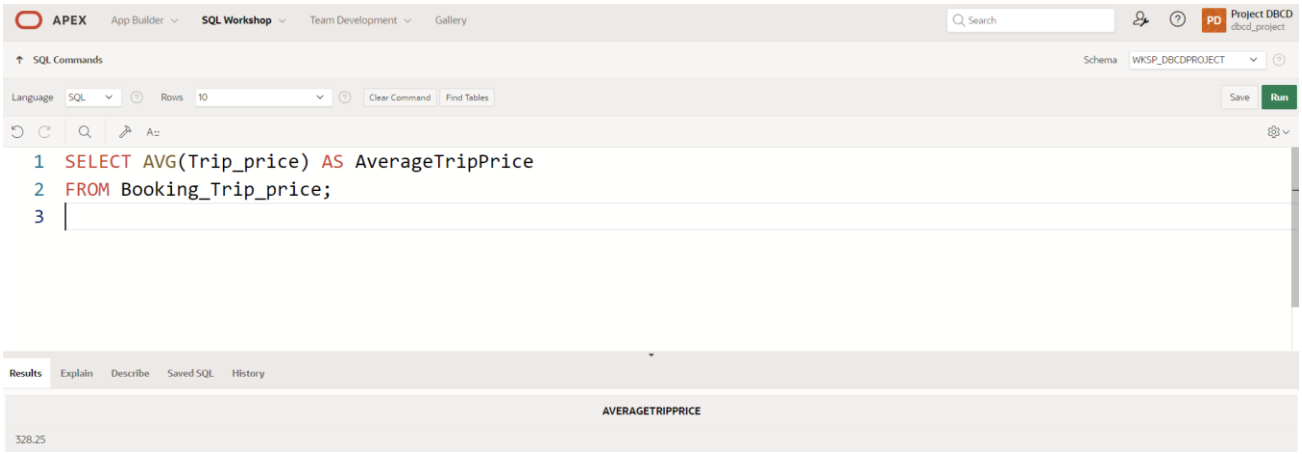
Retrieve the destination and arrival time of flights sorted by arrival time.



```
SELECT A.Destination, F.Arrival_time
FROM Airline_ArrivalTime F
JOIN Airline A ON F.AirlineID = A.AirlineID
ORDER BY F.Arrival_time;
```

DESTINATION	ARRIVAL_TIME
Dubai	04/05/2024
Tokyo	04/25/2024
Singapore	05/06/2024
London	05/11/2024

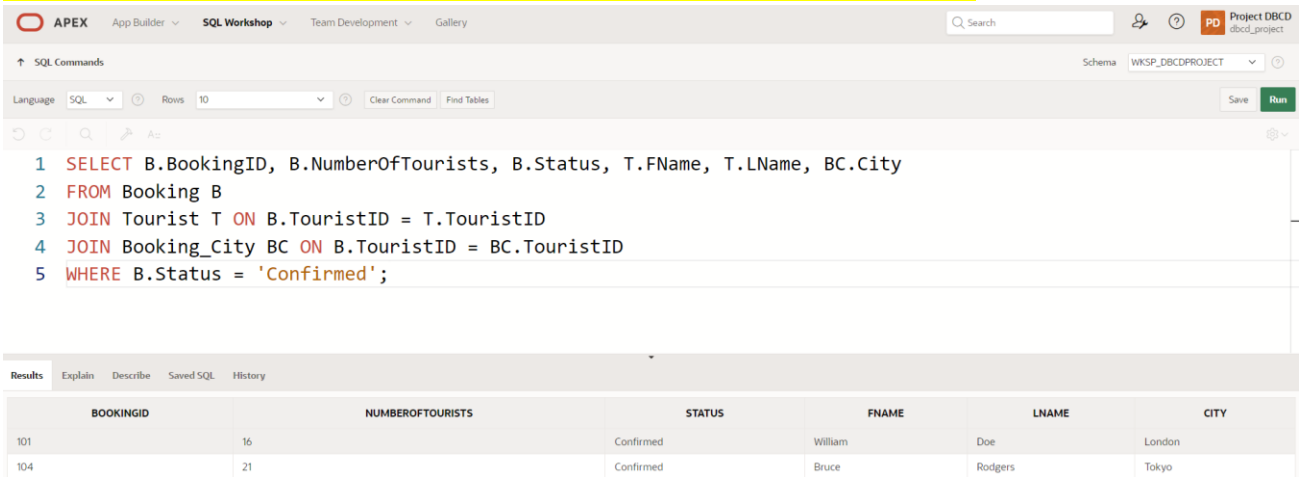
Retrieve the average trip price booked by tourists.



```
SELECT AVG(Trip_price) AS AverageTripPrice
FROM Booking_Trip_price;
```

AVERAGETRIPPRICE
328.25

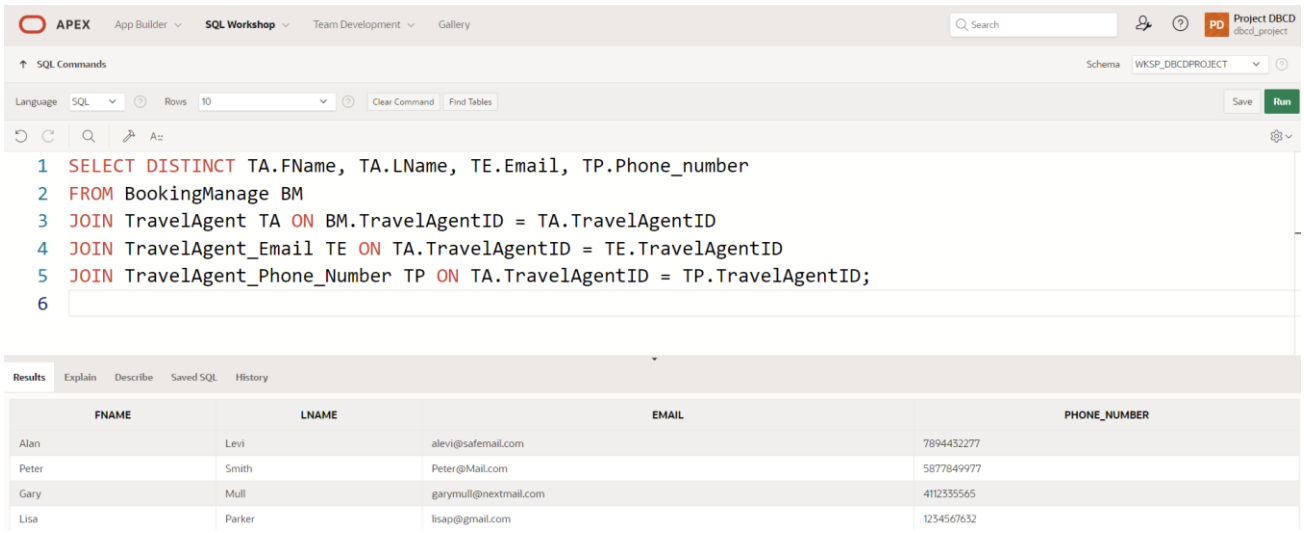
Retrieve all confirmed bookings along with tourist details and destination cities.



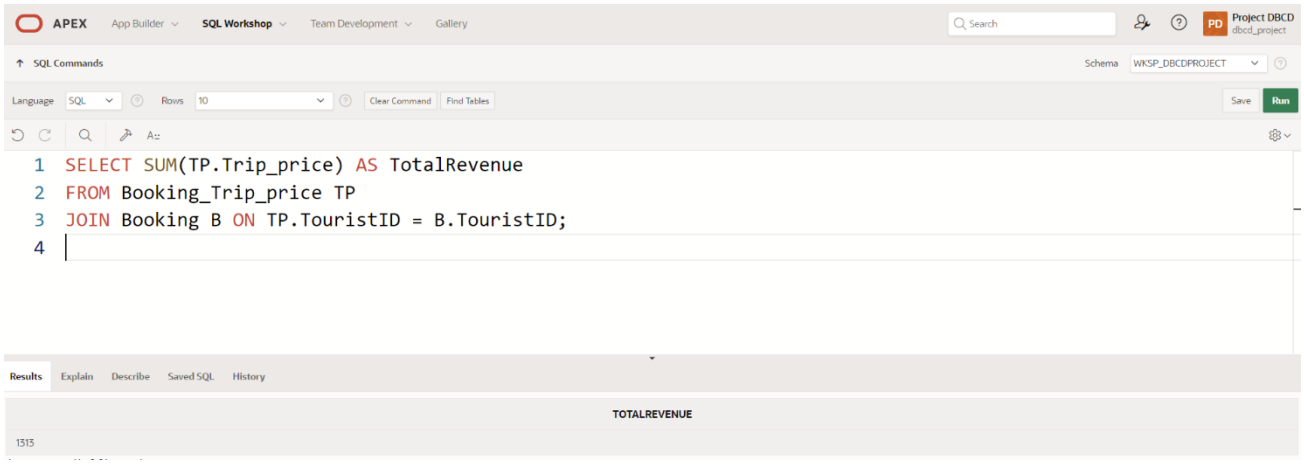
```
SELECT B.BookingID, B.NumberOfTourists, B.Status, T.FName, T.LName, BC.City
FROM Booking B
JOIN Tourist T ON B.TouristID = T.TouristID
JOIN Booking_City BC ON B.TouristID = BC.TouristID
WHERE B.Status = 'Confirmed';
```

BOOKINGID	NUMBEROFTOURISTS	STATUS	FNAME	LNAME	CITY
101	16	Confirmed	William	Doe	London
104	21	Confirmed	Bruce	Rodgers	Tokyo

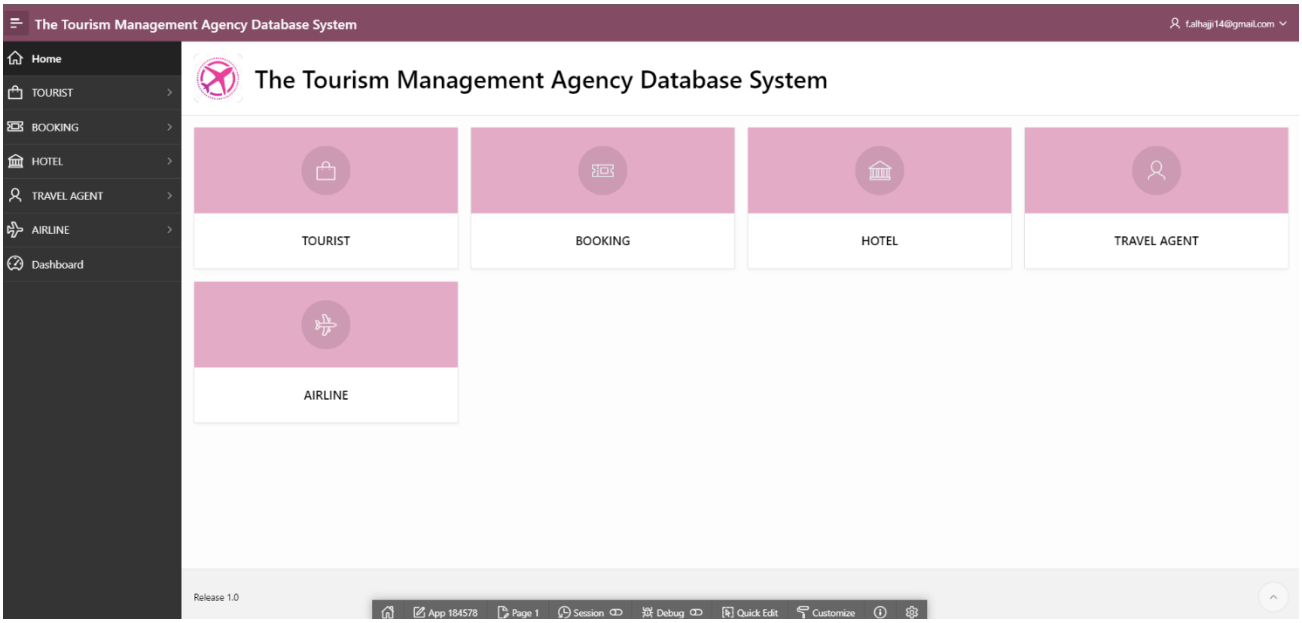
Retrieve the contact information of travel agents who have made bookings.

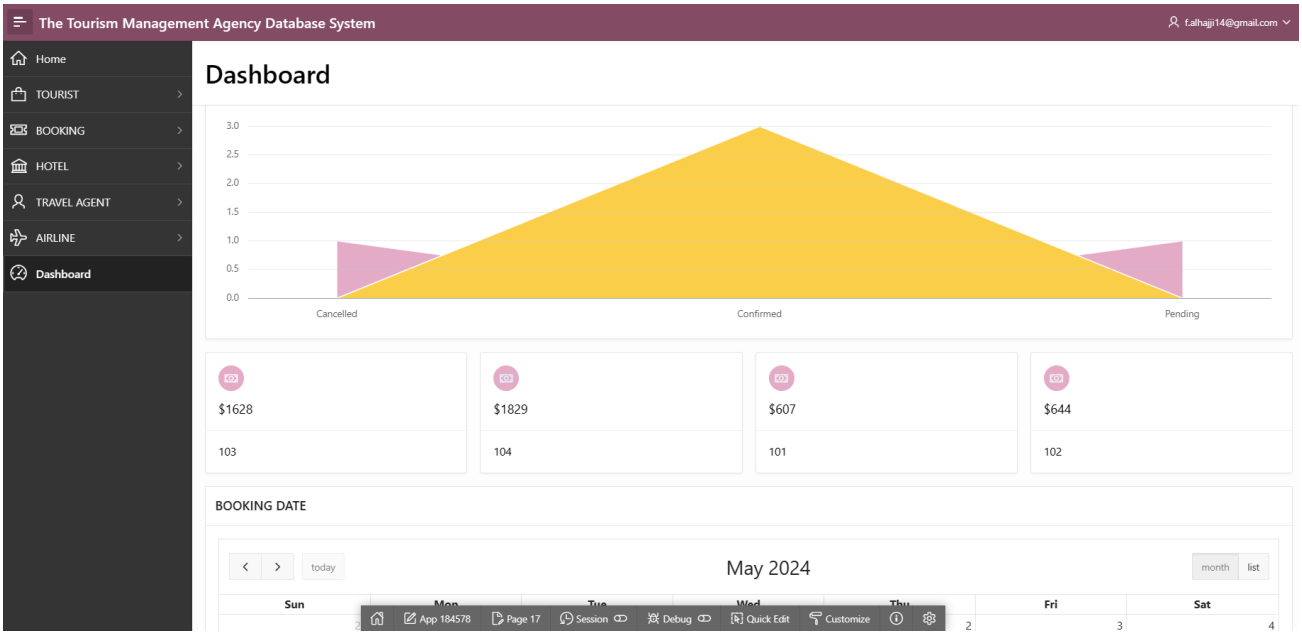


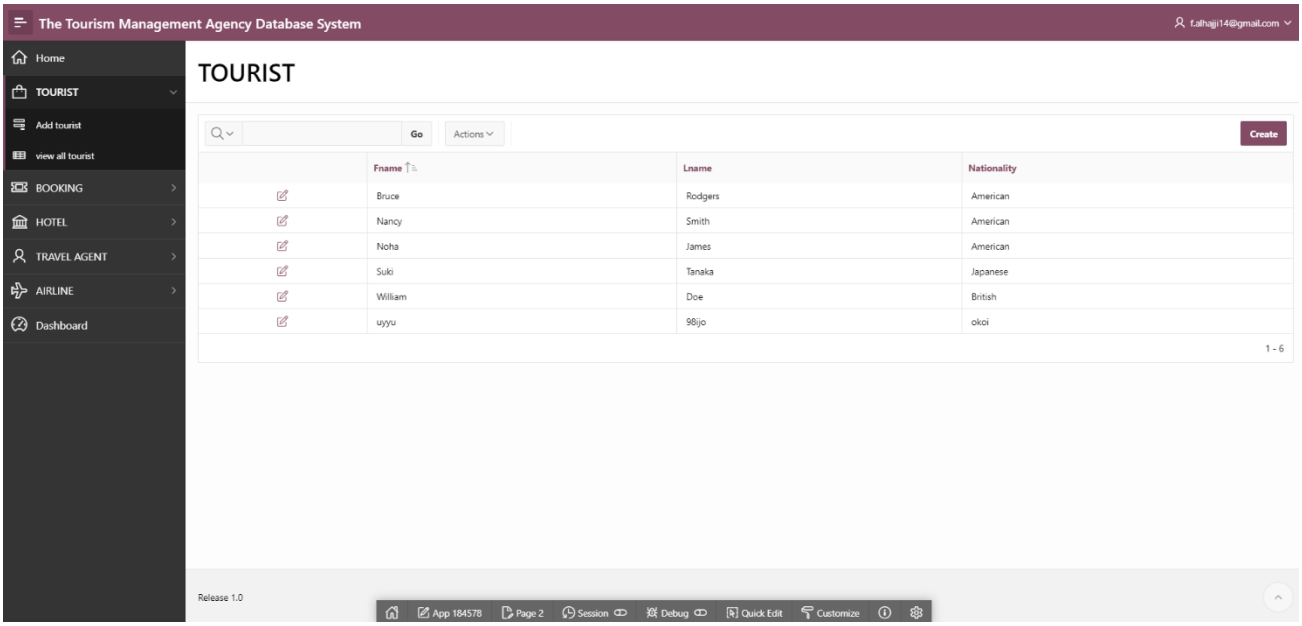
calculates the total revenue generated from all bookings.



8. Application Development






The Tourism Management Agency Database System
f.alhajji14@gmail.com
Home
TOURIST
Add tourist
view all tourist
BOOKING
HOTEL
TRAVEL AGENT
AIRLINE
Dashboard
TOURIST
Go
Actions
Create
Fname
Lname
Nationality
Bruce
Rodgers
American
Nancy
Smith
American
Noha
James
American
Suki
Tanaka
Japanese
William
Doe
British
uyyu
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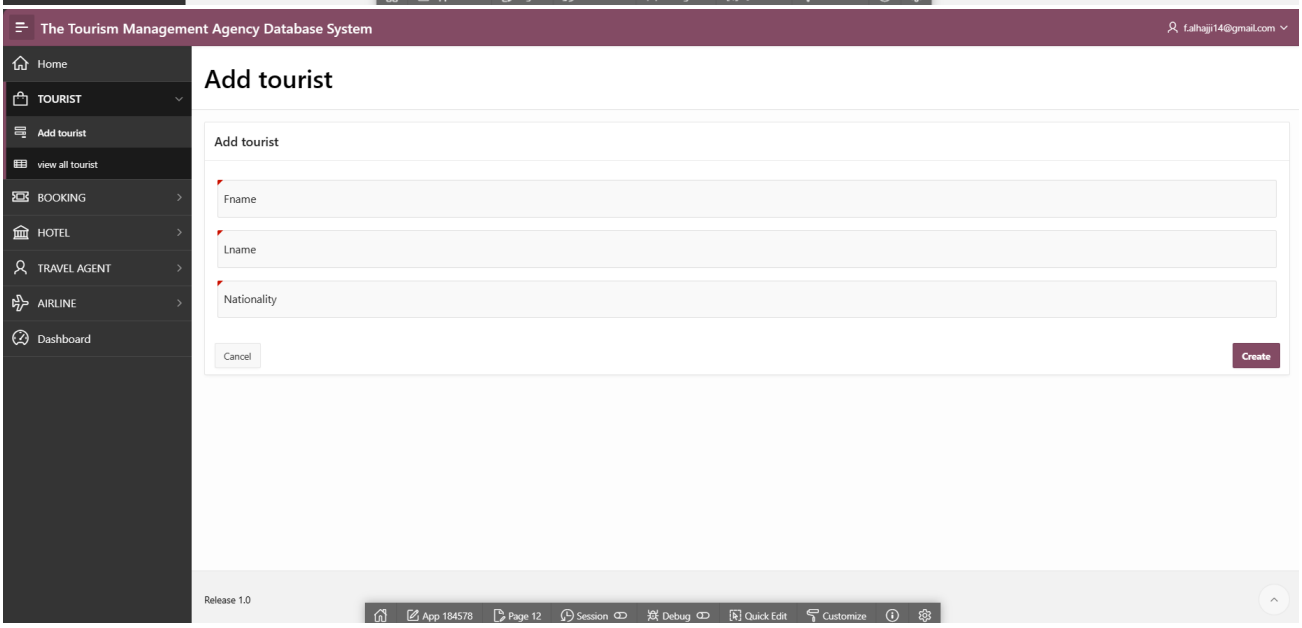
1 - 6
Release 1.0
App 184578
Page 2
Session
Debug
Quick Edit
Customize


The Tourism Management Agency Database System
f.alhajji14@gmail.com
Home
TOURIST
Add tourist
view all tourist
BOOKING
HOTEL
TRAVEL AGENT
AIRLINE
Dashboard
Add tourist
Add tourist
Fname
Lname
Nationality
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Create
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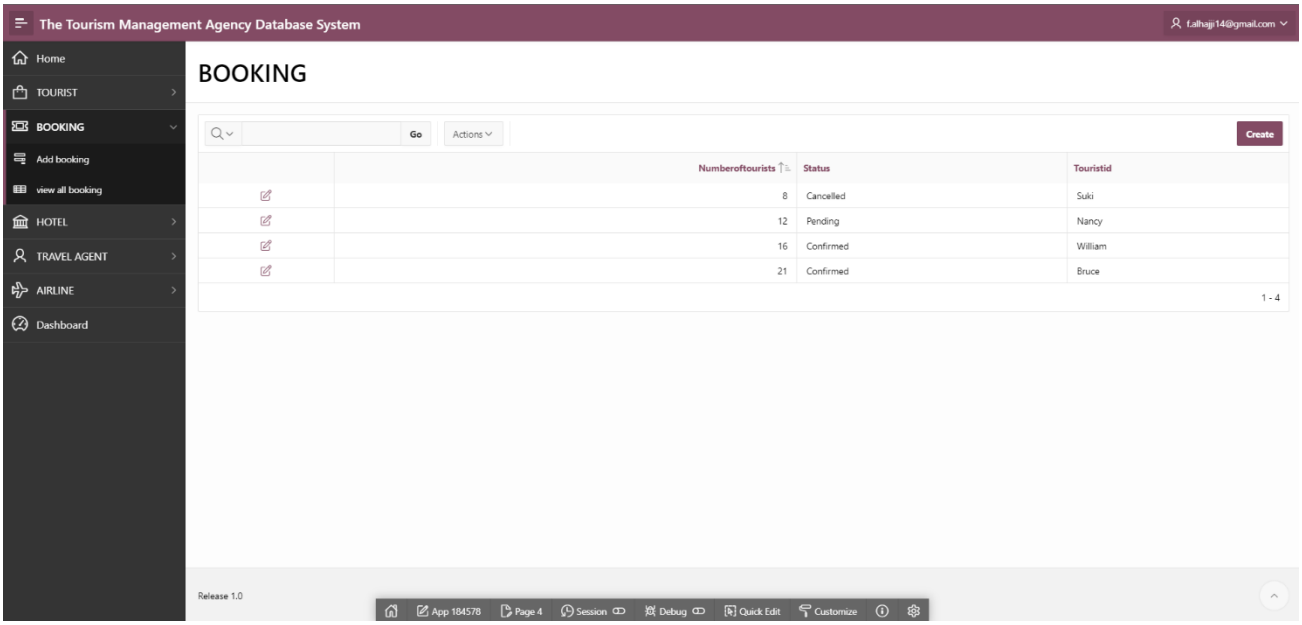
Customize


The Tourism Management Agency Database System
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Home
TOURIST
BOOKING
Add booking
view all booking
HOTEL
TRAVEL AGENT
AIRLINE
Dashboard
BOOKING
Go
Actions
Create
Numberoftourists
Status
Touristid
8
Cancelled
Suki
12
Pending
Nancy
16
Confirmed
William
21
Confirmed
Bruce
1 - 4
Release 1.0
App 184578
Page 4
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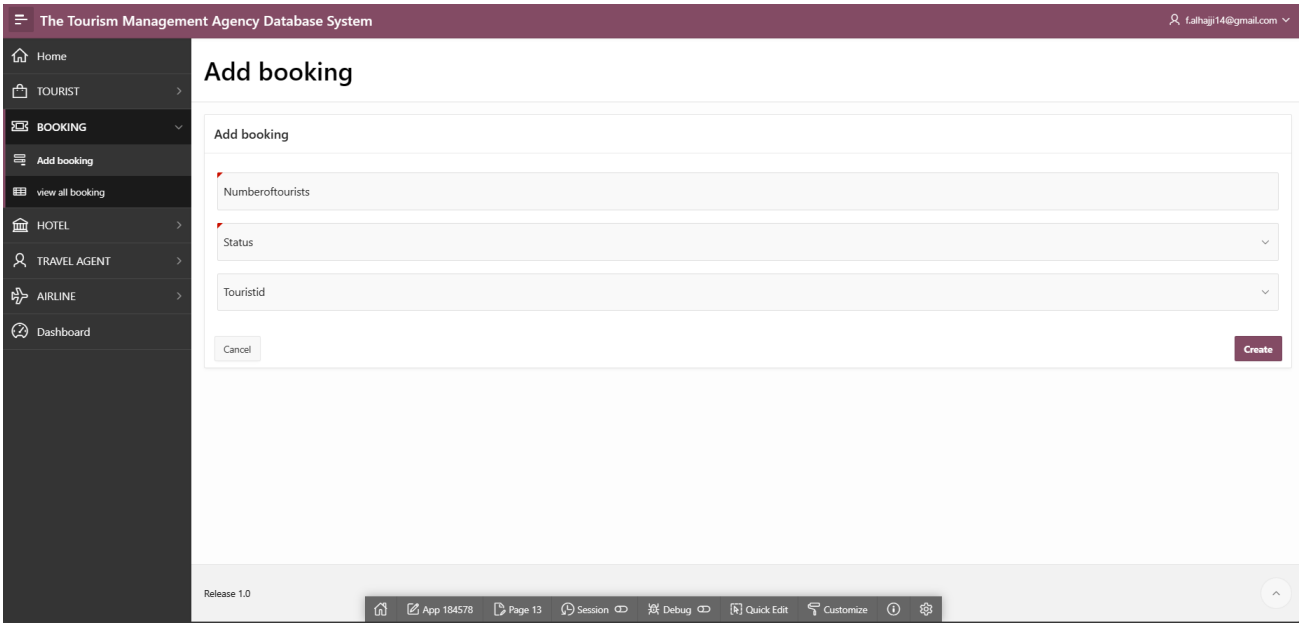
Debug
Quick Edit
Customize


The Tourism Management Agency Database System
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Home
TOURIST
BOOKING
Add booking
view all booking
HOTEL
TRAVEL AGENT
AIRLINE
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App 184578
Page 13
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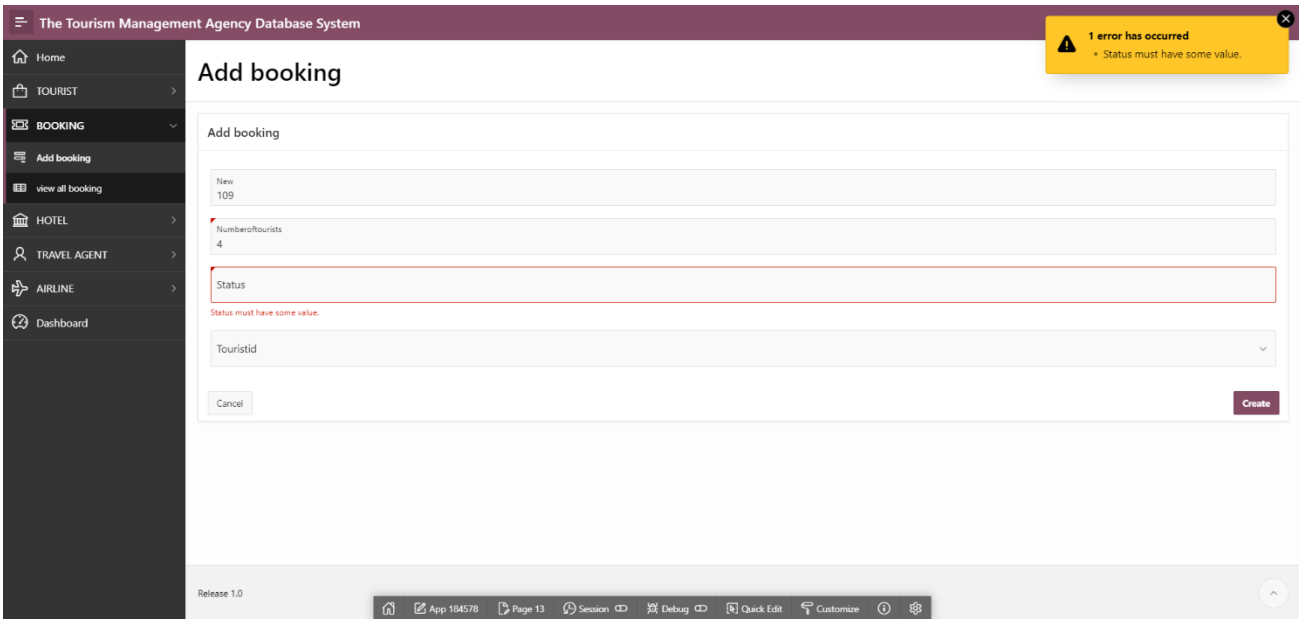
Debug
Quick Edit
Customize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• Status must have some value.
Home
TOURIST
BOOKING
Add booking
view all booking
HOTEL
TRAVEL AGENT
AIRLINE
Dashboard
Add booking
Add booking
New
109
Numberoftourists
4
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Status must have some value.
Touristid
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App 184578
Page 13
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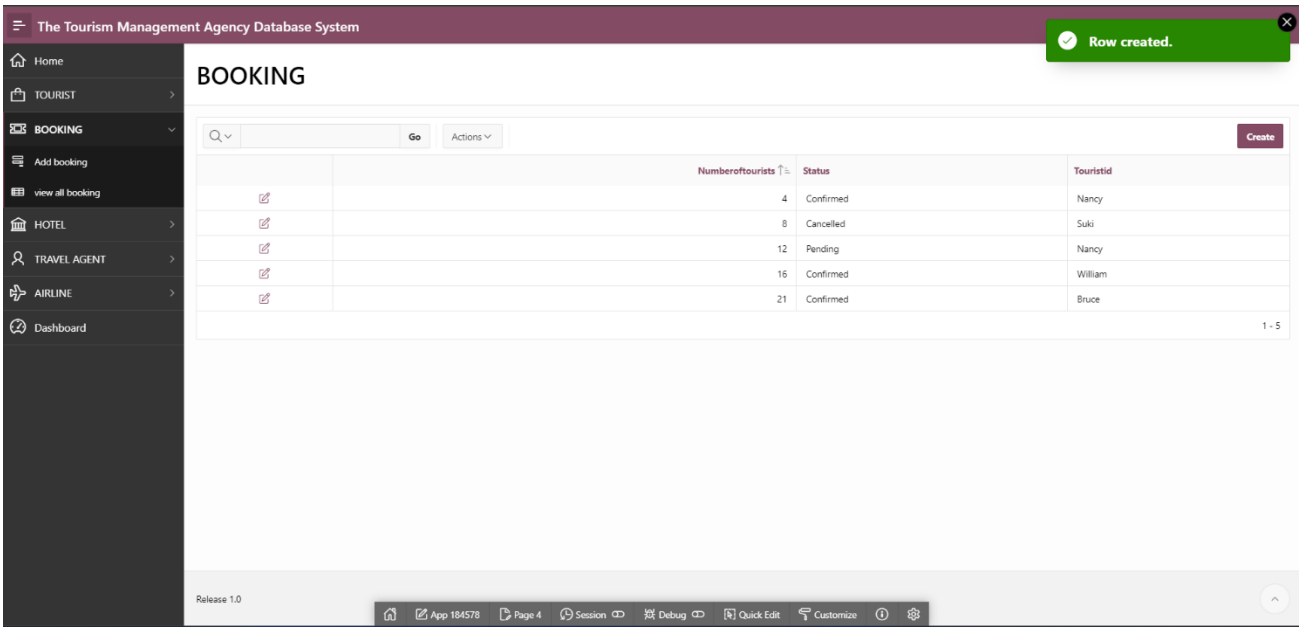
Debug
Quick Edit
Customize


The Tourism Management Agency Database System
Row created.
Home
TOURIST
BOOKING
Add booking
view all booking
HOTEL
TRAVEL AGENT
AIRLINE
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BOOKING
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Create
Numberoftourists
Status
Touristid
4 Confirmed Nancy
8 Cancelled Suki
12 Pending Nancy
16 Confirmed William
21 Confirmed Bruce
1 - 5
Release 1.0
App 184578
Page 4
Session
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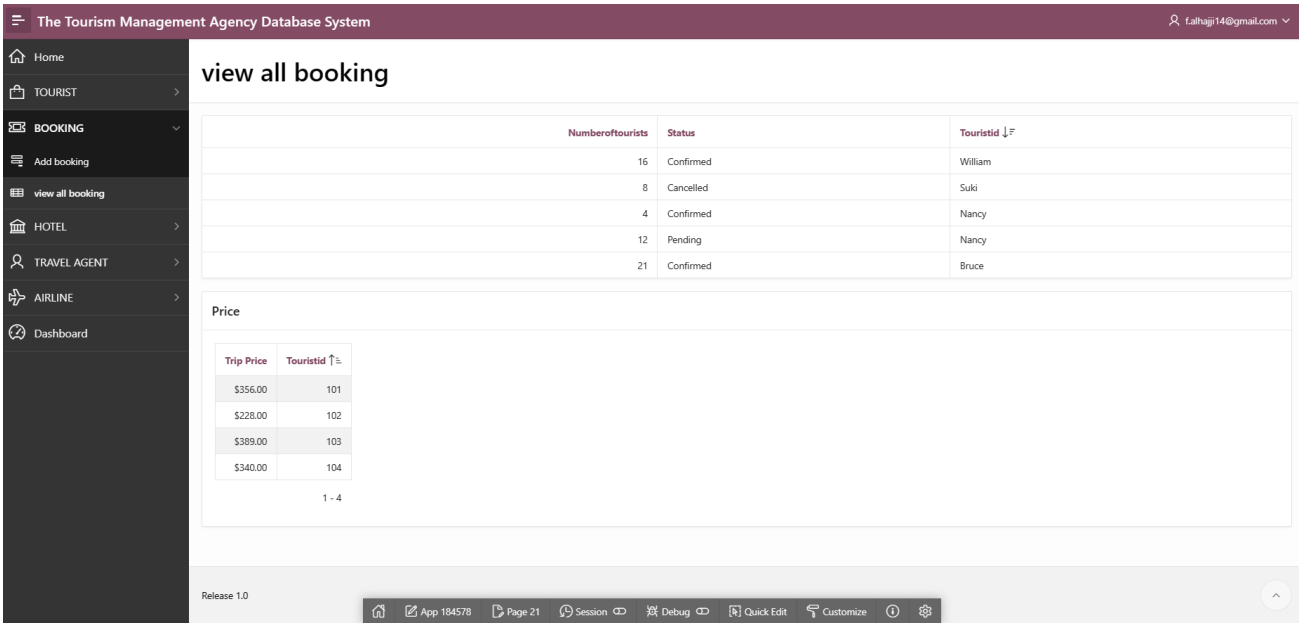
Quick Edit
Customize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Home
TOURIST
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Add booking
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HOTEL
TRAVEL AGENT
AIRLINE
Dashboard
view all booking
Numberoftourists
Status
Touristid
16 Confirmed William
8 Cancelled Suki
4 Confirmed Nancy
12 Pending Nancy
21 Confirmed Bruce
Price
Trip Price
Touristid
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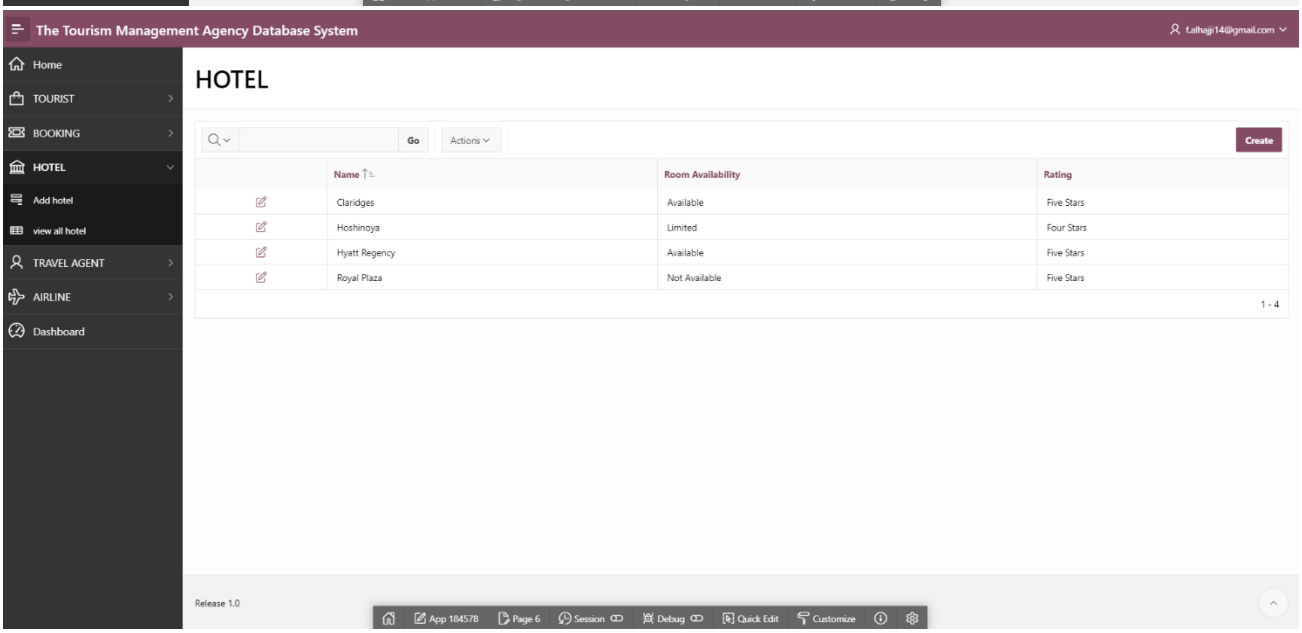
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Home
TOURIST
BOOKING
HOTEL
Add hotel
view all hotel
TRAVEL AGENT
AIRLINE
Dashboard
HOTEL
Go
Actions
Create
Name
Room Availability
Rating
Claridges Available Five Stars
Hoshinoya Limited Four Stars
Hyatt Regency Available Five Stars
Royal Plaza Not Available Five Stars
1 - 4
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App 184578
Page 6
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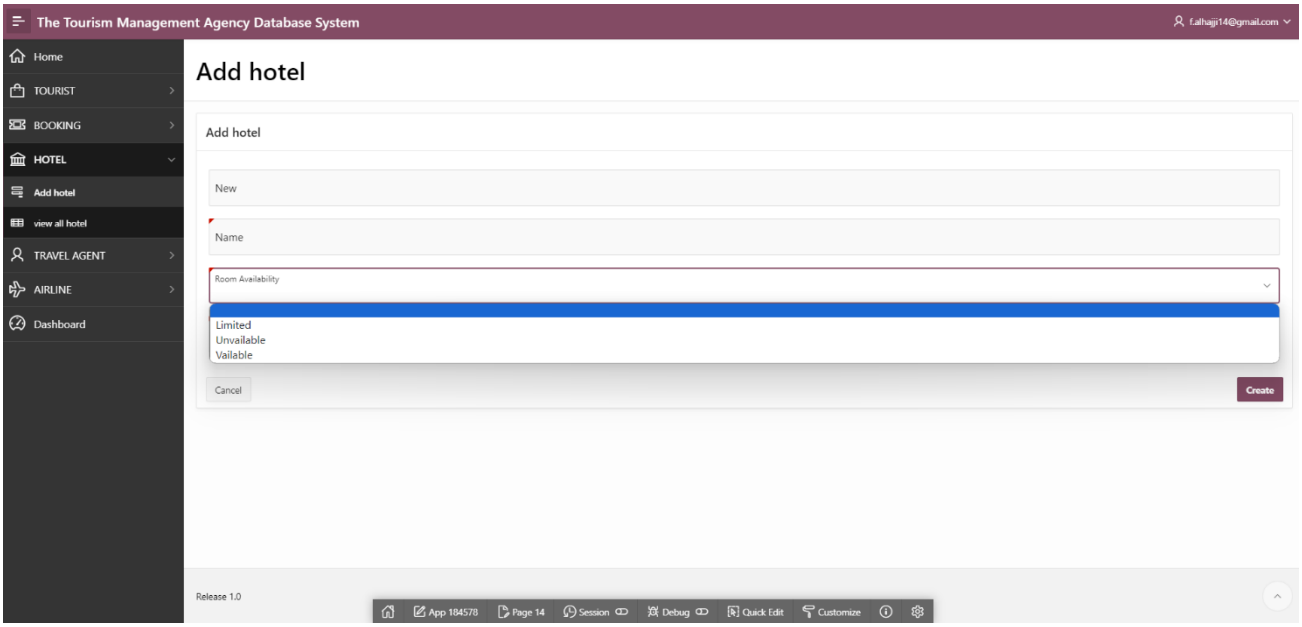
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Home
TOURIST
BOOKING
HOTEL
Add hotel
view all hotel
TRAVEL AGENT
AIRLINE
Dashboard
Add hotel
Add hotel
New
Name
Room Availability
Limited
Unvailable
Vailable
Cancel
Create
Release 1.0
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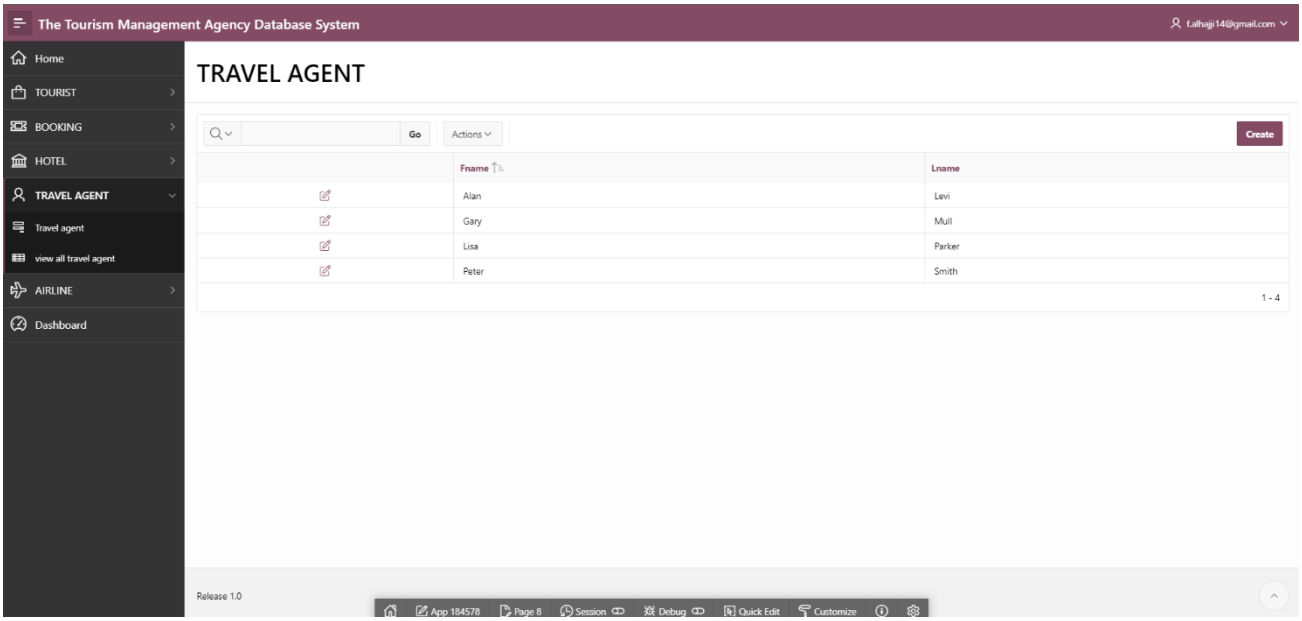
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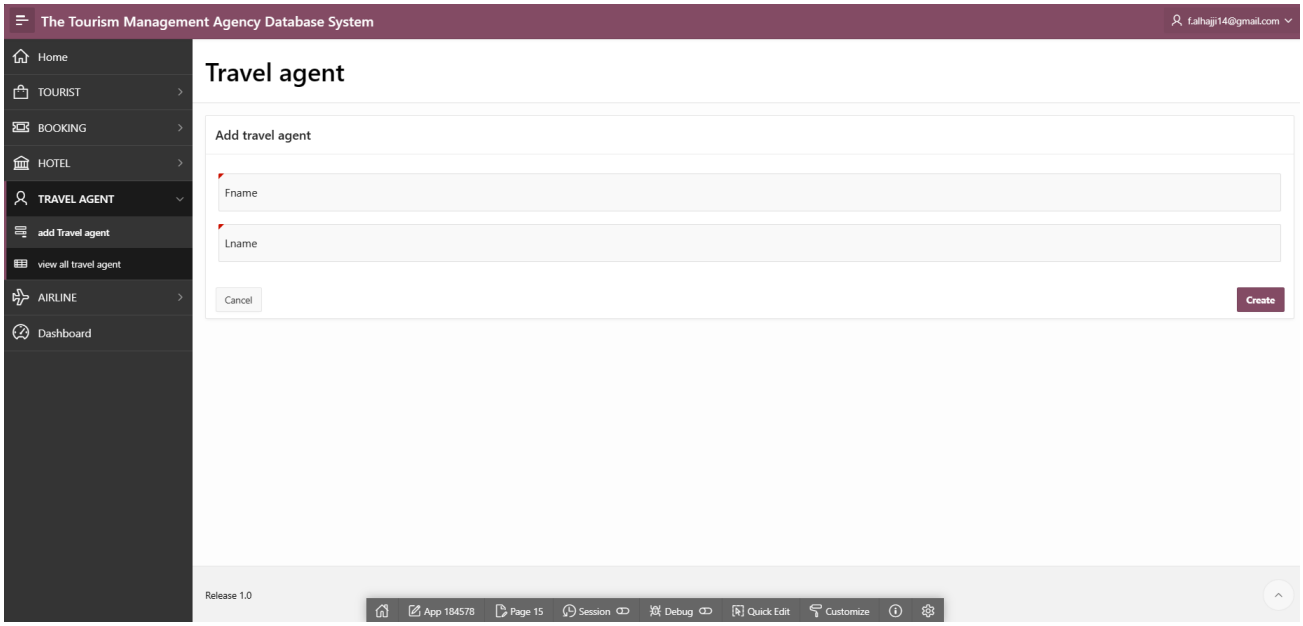
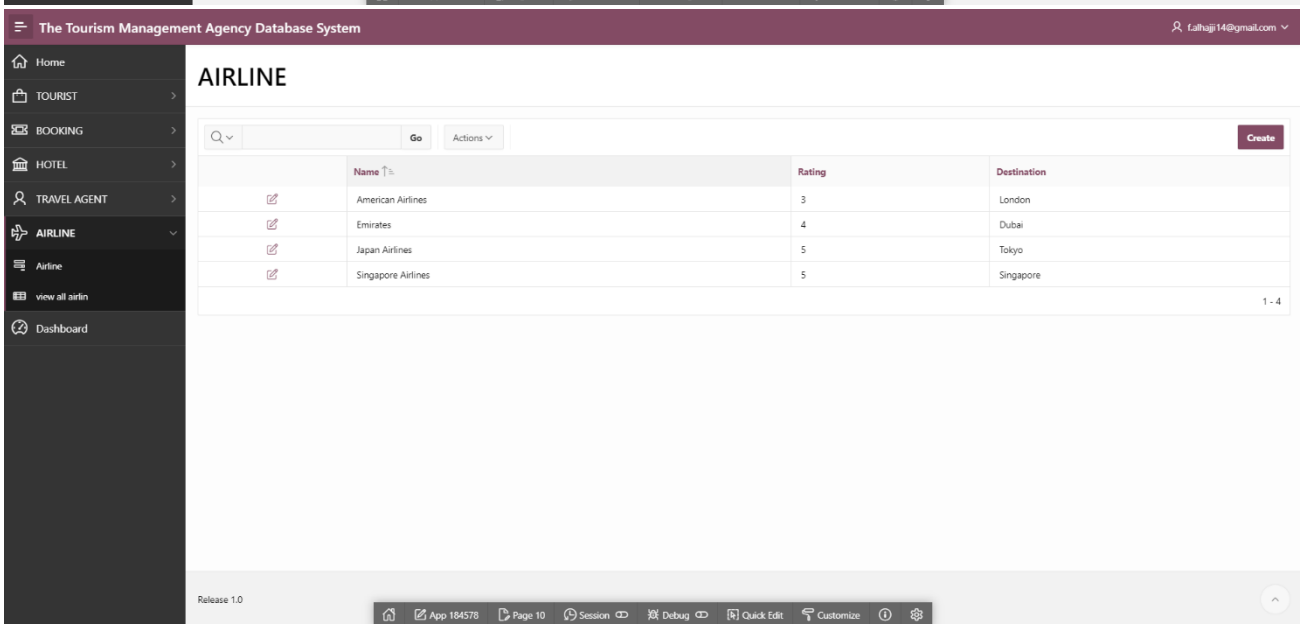
Home
TOURIST
BOOKING
HOTEL
TRAVEL AGENT
Travel agent
view all travel agent
AIRLINE
Dashboard
TRAVEL AGENT
Go
Actions
Create
Fname
Lname
Alan
Levi
Gary
Mull
Lisa
Parker
Peter
Smith
1 - 4
Release 1.0
App 184578
Page 8
Session
Debug
Quick Edit
Customize


The Tourism Management Agency Database System
f.alhajji14@gmail.com
Home
TOURIST
BOOKING
HOTEL
TRAVEL AGENT
add Travel agent
view all travel agent
AIRLINE
Dashboard
Travel agent
Add travel agent
Fname
Lname
Cancel
Create
Release 1.0
App 184578
Page 15
Session
Debug
Quick Edit
Customize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Home
TOURIST
BOOKING
HOTEL
TRAVEL AGENT
AIRLINE
Airline
view all airlin
Dashboard
AIRLINE
Go
Actions
Create
Name
Rating
Destination
American Airlines 3 London
Emirates 4 Dubai
Japan Airlines 5 Tokyo
Singapore Airlines 5 Singapore
1 - 4
Release 1.0
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Session
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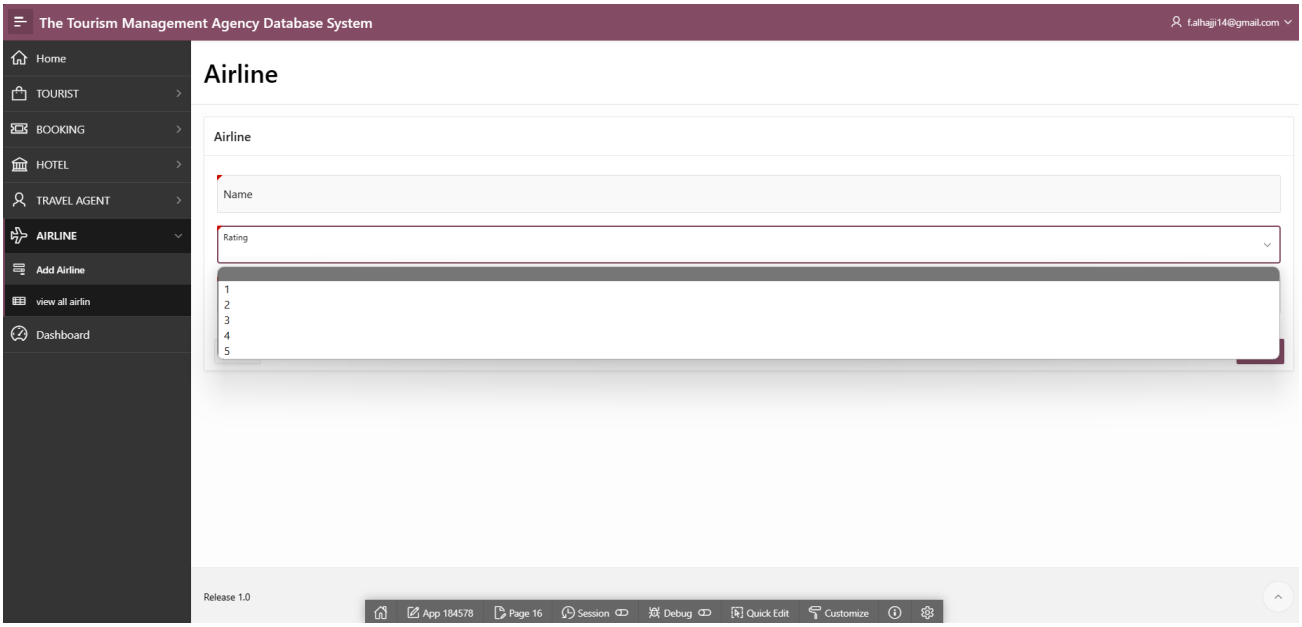
Customize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Home
TOURIST
BOOKING
HOTEL
TRAVEL AGENT
AIRLINE
Add Airline
view all airlin
Dashboard
Airline
Airline
Name
Rating
1
2
3
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5
Release 1.0
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Home
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BOOKING
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TRAVEL AGENT
AIRLINE
Dashboard
Dashboard
BOOKING STATES
3.5
3.0
2.5
2.0
1.5
1.0
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Cancelled
Confirmed
Pending
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$1829
104
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BOOKING DATE
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