DBMS LAB ASSIGNMENT – 2

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Q-1:

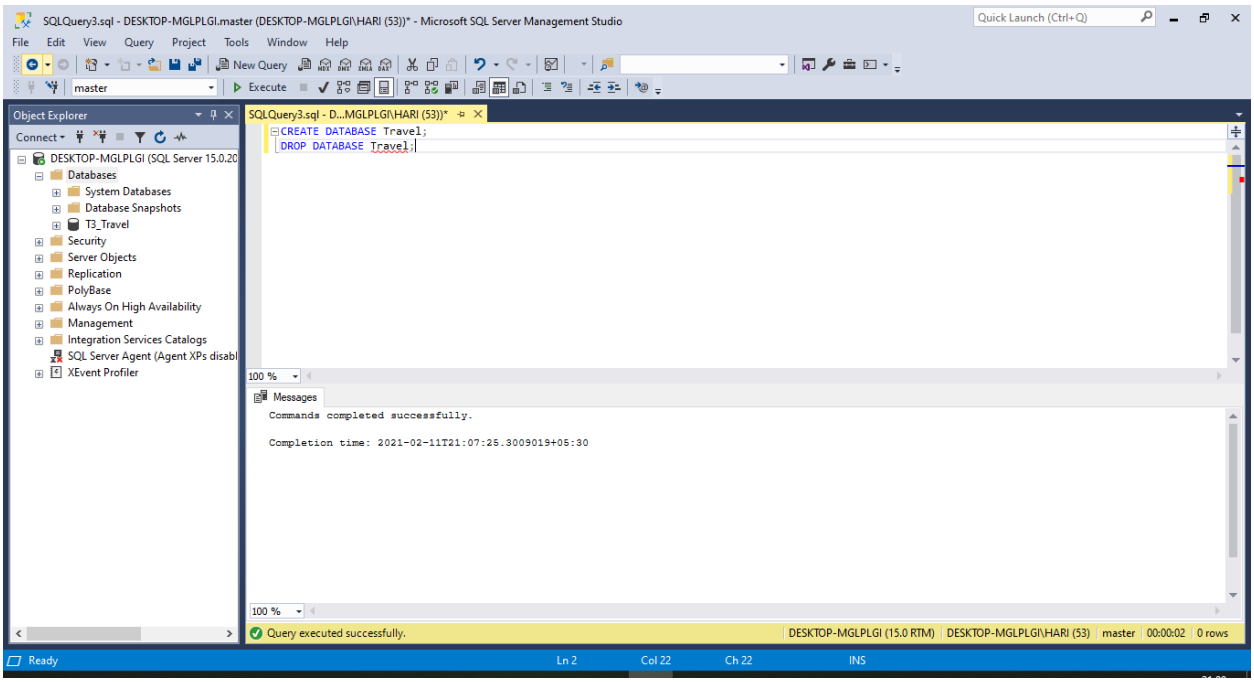
Show how to Create and Drop Database.

SOLUTION:

```
CREATE DATABASE Travel;

DROP DATABASE Travel;
```

OUTPUT:



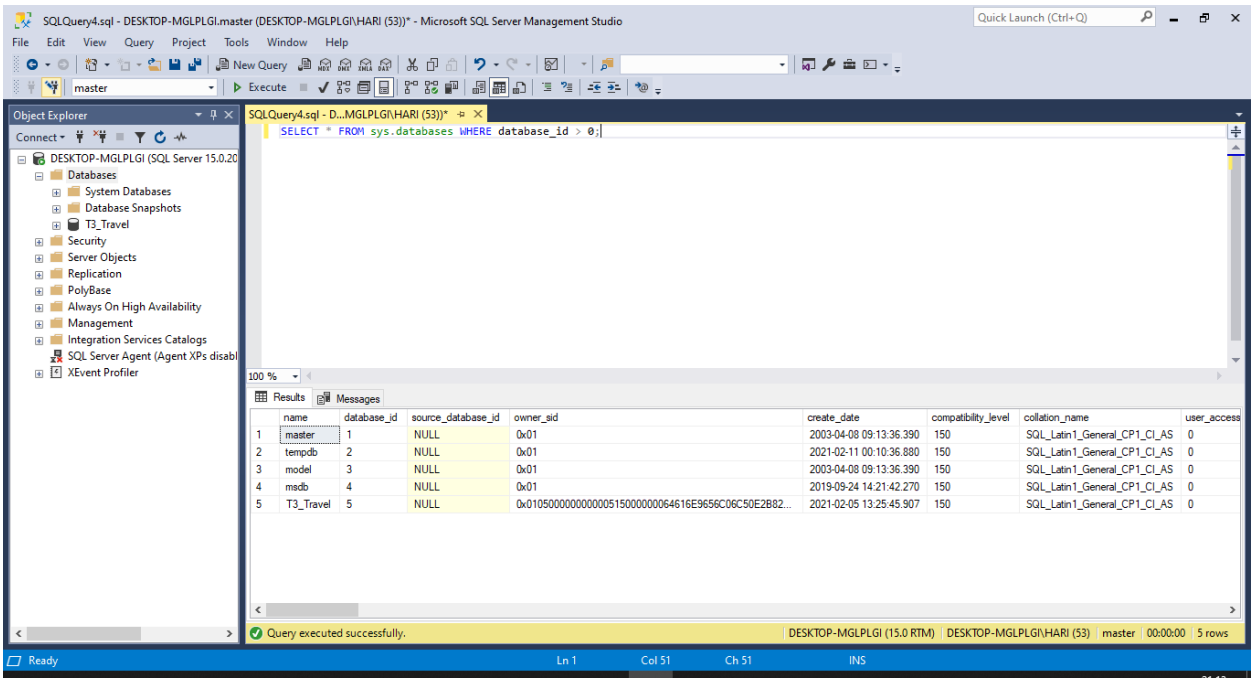
Q-2:

Show all the Databases are in the system.

SOLUTION:

```
SELECT * FROM sys.databases WHERE database.id > 0;
```

OUTPUT:



Q-3:

Create Table for your Database.

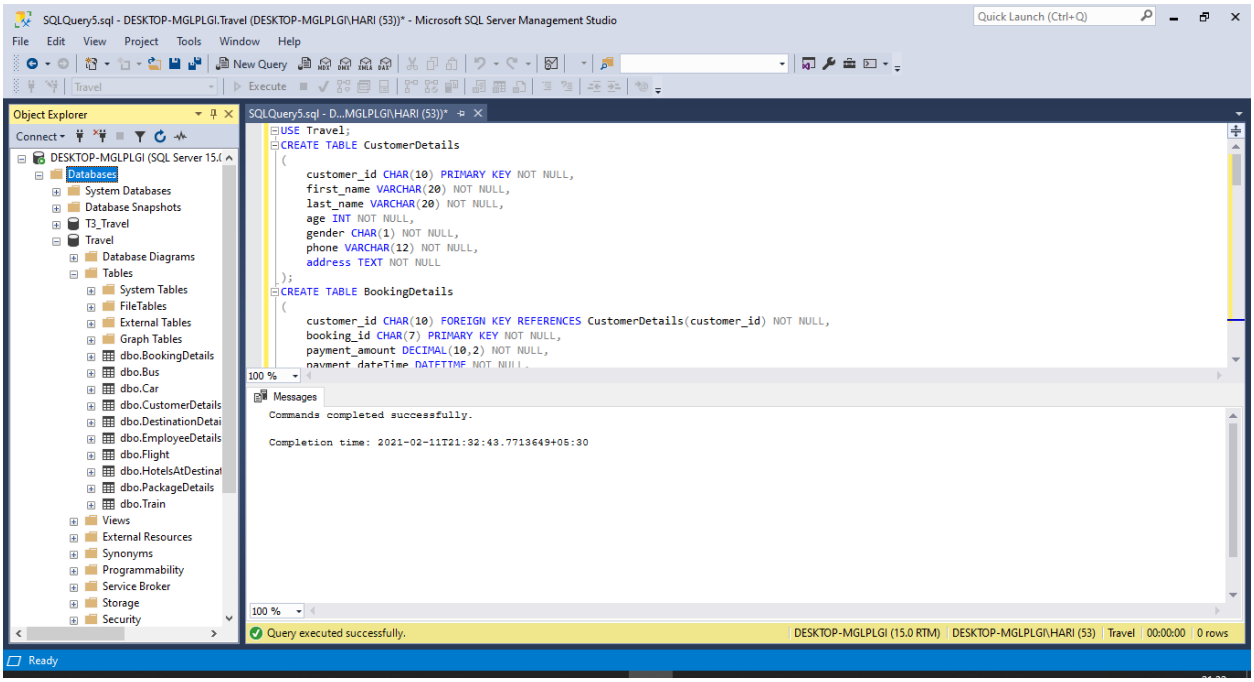
SOLUTION:

```
USE Travel;
CREATE TABLE CustomerDetails
(
      customer_id CHAR(10) PRIMARY KEY NOT NULL,
      first_name VARCHAR(20) NOT NULL,
      last_name VARCHAR(20) NOT NULL,
      age INT NOT NULL,
      gender CHAR(1) NOT NULL,
      phone VARCHAR(12) NOT NULL,
      address TEXT NOT NULL
);
CREATE TABLE BookingDetails
(
      customer_id CHAR(10) FOREIGN KEY REFERENCES
CustomerDetails(customer_id) NOT NULL,
      booking_id CHAR(7) PRIMARY KEY NOT NULL,
      payment_amount DECIMAL(10,2) NOT NULL,
      payment_dateTime DATETIME NOT NULL,
      refunded CHAR(1),
      refund_amount DECIMAL(10,2),
      refund_dateTime DATETIME
);
CREATE TABLE PackageDetails
```

```
(
      package_name VARCHAR(15) PRIMARY KEY NOT NULL,
      package_description TEXT NOT NULL,
      cost DECIMAL(10,2) NOT NULL,
      starting_point VARCHAR(15) NOT NULL,
      booking_id CHAR(7) FOREIGN KEY REFERENCES
BookingDetails(booking_id) NOT NULL
);
CREATE TABLE DestinationDetails
(
      package_name VARCHAR(15) FOREIGN KEY REFERENCES
PackageDetails(package_name) NOT NULL,
      city_id CHAR(4) PRIMARY KEY NOT NULL,
      city VARCHAR(15) NOT NULL
);
CREATE TABLE HotelsAtDestination
(
      city_id CHAR(4) FOREIGN KEY REFERENCES
DestinationDetails(city_id) NOT NULL,
      hotel_id CHAR(3) PRIMARY KEY NOT NULL,
      hotel_name VARCHAR(10) NOT NULL,
      hotel_description TEXT NOT NULL,
      address TEXT NOT NULL
);
CREATE TABLE EmployeeDetails
(
      employee_id CHAR(5)   PRIMARY KEY NOT NULL,
      name VARCHAR(10) NOT NULL,
      designation VARCHAR(15) NOT NULL,
      phone_number VARCHAR(12) NOT NULL,
      salary DECIMAL(10,2) NOT NULL
);
CREATE TABLE Car
(
      package_name VARCHAR(15) FOREIGN KEY REFERENCES
PackageDetails(package_name) NOT NULL,
      car_id CHAR(10) PRIMARY KEY NOT NULL,
      car_model VARCHAR(10) NOT NULL,
      employee_id CHAR(5) FOREIGN KEY REFERENCES
EmployeeDetails(employee_id) NOT NULL,
      dateAndTime_Of_Pickup DATETIME NOT NULL,
      dateAndTime_Of_Drop DATETIME NOT NULL
);
CREATE TABLE Bus
(
```

```
      package_name VARCHAR(15) FOREIGN KEY REFERENCES
PackageDetails(package_name) NOT NULL,
      bus_id CHAR(4) PRIMARY KEY NOT NULL,
      bus_type VARCHAR(10) NOT NULL,
      employee_id CHAR(5) FOREIGN KEY REFERENCES
EmployeeDetails(employee_id) NOT NULL,
      dateAndTime_Of_Arrival DATETIME NOT NULL,
      dateAndTime_Of_Departure DATETIME NOT NULL
);
CREATE TABLE Flight
(
      package_name VARCHAR(15) FOREIGN KEY REFERENCES
PackageDetails(package_name) NOT NULL,
      flight_id CHAR(8) PRIMARY KEY NOT NULL,
      flight_class VARCHAR(10) NOT NULL,
      dateAndTime_Of_boarding DATETIME NOT NULL,
      dateAndTime_Of_landing DATETIME NOT NULL
);
CREATE TABLE Train
(
      package_name VARCHAR(15) FOREIGN KEY REFERENCES
PackageDetails(package_name) NOT NULL,
      train_no CHAR(8) PRIMARY KEY NOT NULL,
      train_Class VARCHAR(10) NOT NULL,
      dateAndTime_Of_Arrival DATETIME NOT NULL,
      dateAndTime_Of_Departure DATETIME NOT NULL
);
```

OUTPUT:



Q-4:

Drop table.

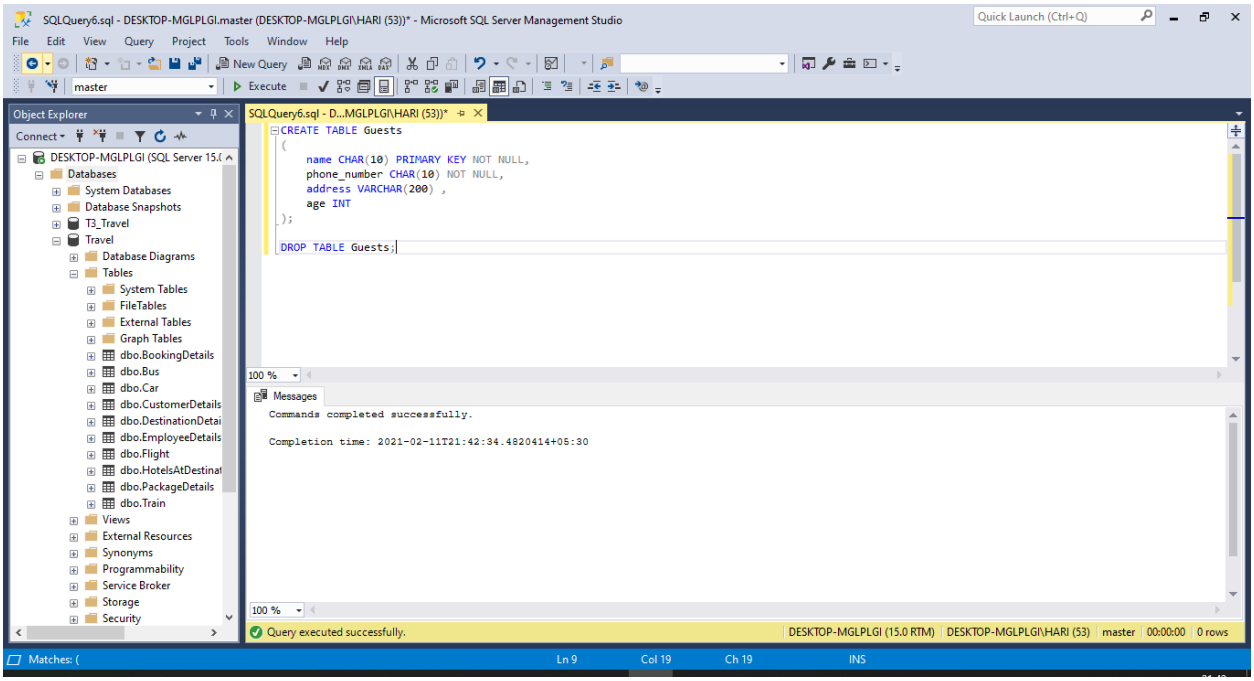
SOLUTION:

```
CREATE TABLE Guests
(
      name CHAR(10) PRIMARY KEY NOT NULL,
      phone_number CHAR(10) NOT NULL,
      address VARCHAR(200) ,
      age INT
```

```
);

DROP TABLE Guests;
```

OUTPUT:



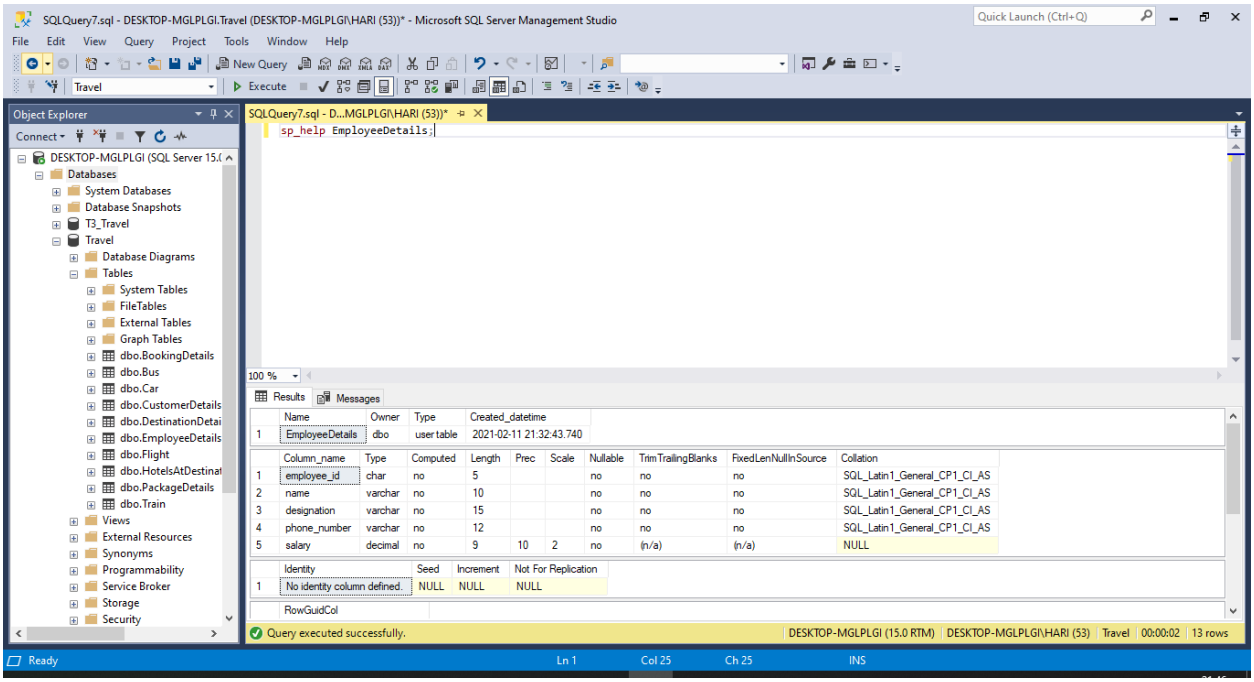
Q-5:

Show how to check the schema of the tables.

SOLUTION:

```
Sp_help Employee_Details;
```

OUTPUT:



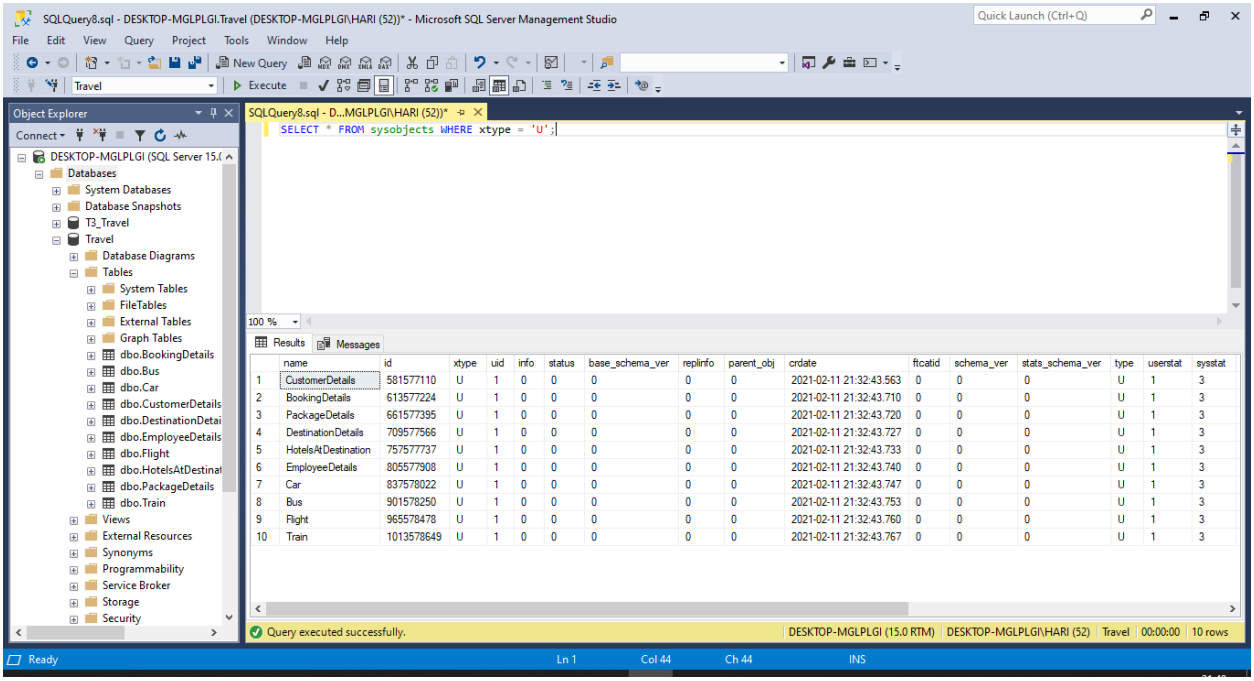
Q-6:

Show all the tables from the database

SOLUTION:

```
SELECT * FROM sysobjects WHERE xtype = 'U';
```

OUTPUT:



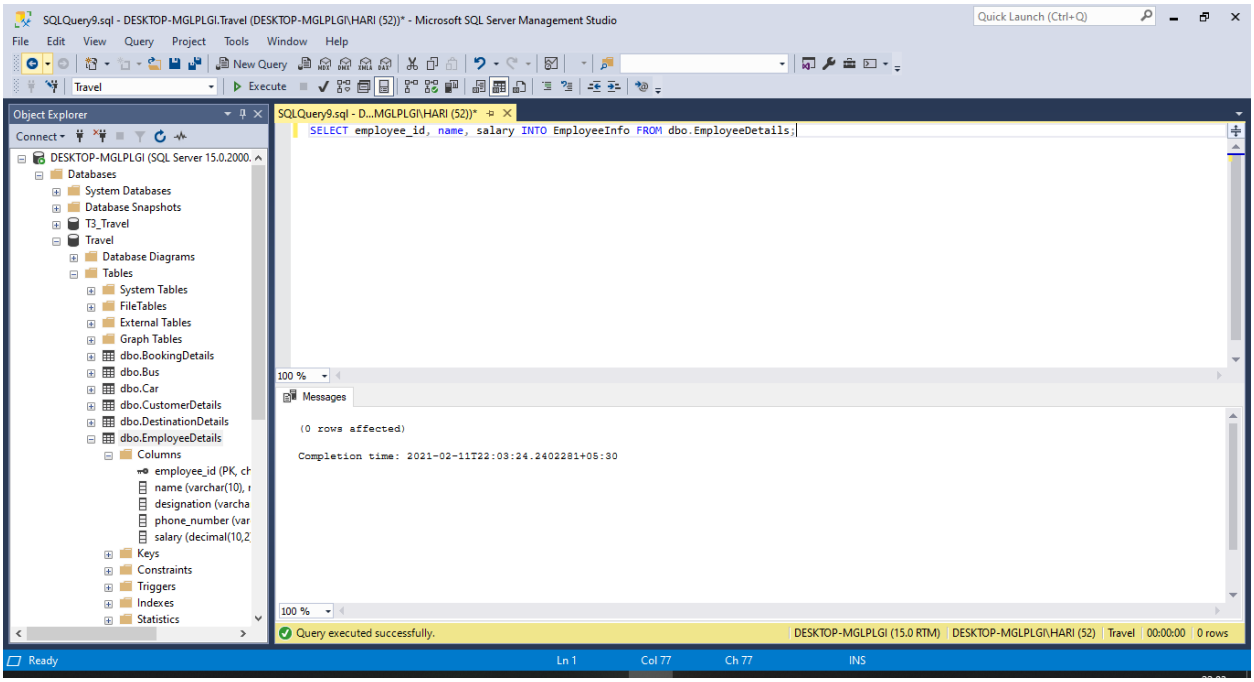
Q-7:

Create Table using Select Statement.

SOLUTION:

```
SELECT employee_id, name, salary INTO Employee_Info FROM
EmployeeDetails;
```

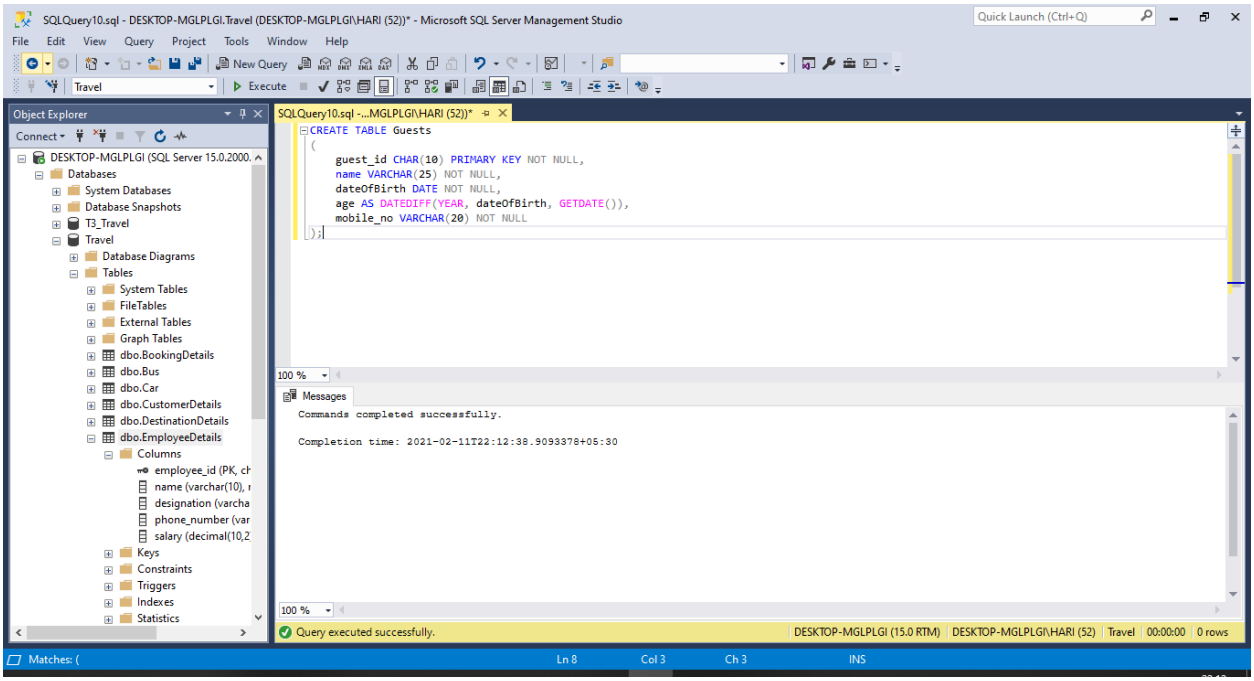
OUTPUT:



Q-8:

Create a table which has derived attribute.

SOLUTION:

```
CREATE TABLE Guests
(
	guest_id CHAR(10) PRIMARY KEY NOT NULL,
	name VARCHAR(25) NOT NULL,
	dateOfBirth DATE NOT NULL,
	age AS DATEDIFF(YEAR, dateOfBirth, GETDATE()),
	mobile_no VARCHAR(20) NOT NULL
);
```

OUTPUT: