

```
CREATE DATABASE TRAVEL;  
DROP DATABASE TRAVEL;
```

2. Show all the Databases are in the system

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The 'Object Explorer' on the left shows the 'Databases' folder expanded, with 'T3\_Travel' selected. The 'Properties' pane on the right shows the 'General' tab for the 'T3\_Travel' database. The 'Messages' pane at the bottom shows a successful execution of a query.

**Database Properties (General Tab):**

name	database_id	source_database_id	owner_sid	create_date	compatibility_level	collation_name	user_access	user_access_desc	is_read_only	is_auto_close_on
master	1	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
tempdb	2	NULL	0x01	2021-02-13 15:48:38.803	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
model	3	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
msdb	4	NULL	0x01	2019-09-24 14:21:42.270	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0
T3_Travel	5	NULL	0x010500000000000005150000000037991A0DD68A2E7F53...	2021-02-04 23:53:01.717	150	SQL_Latin1_General_CP1_CI_AS	0	MULTI_USER	0	0

**Messages:**

Query executed successfully.

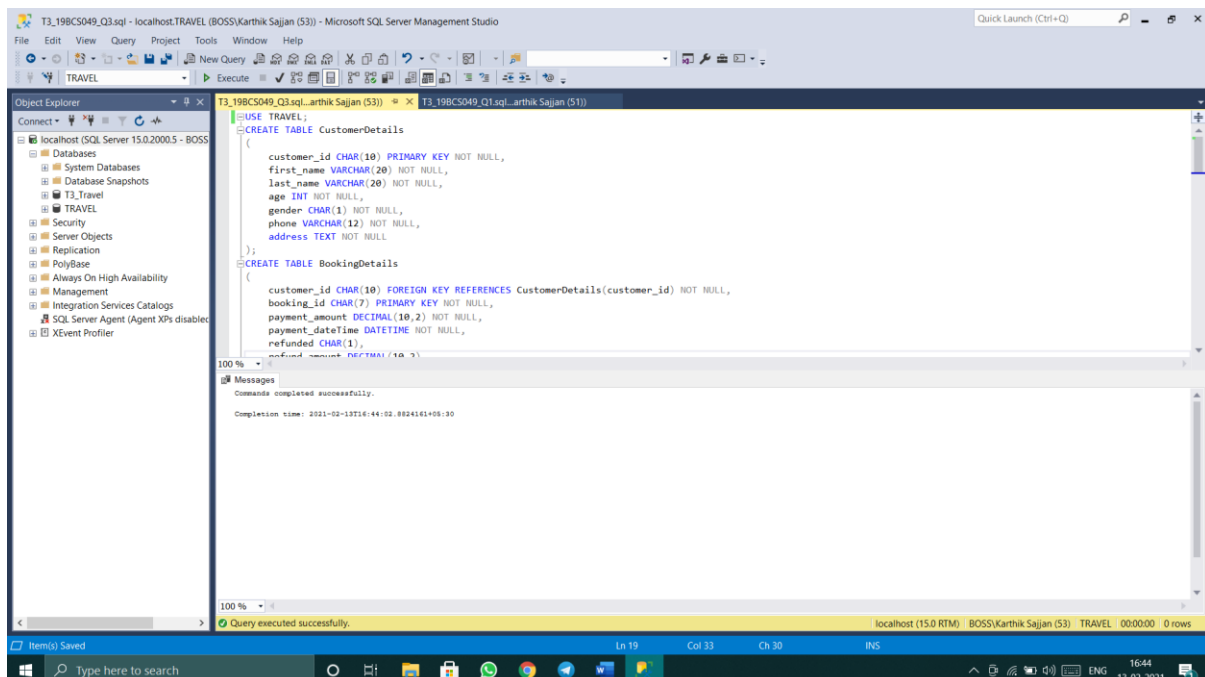
### 3. Create Table for your Database

```
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,
```

```

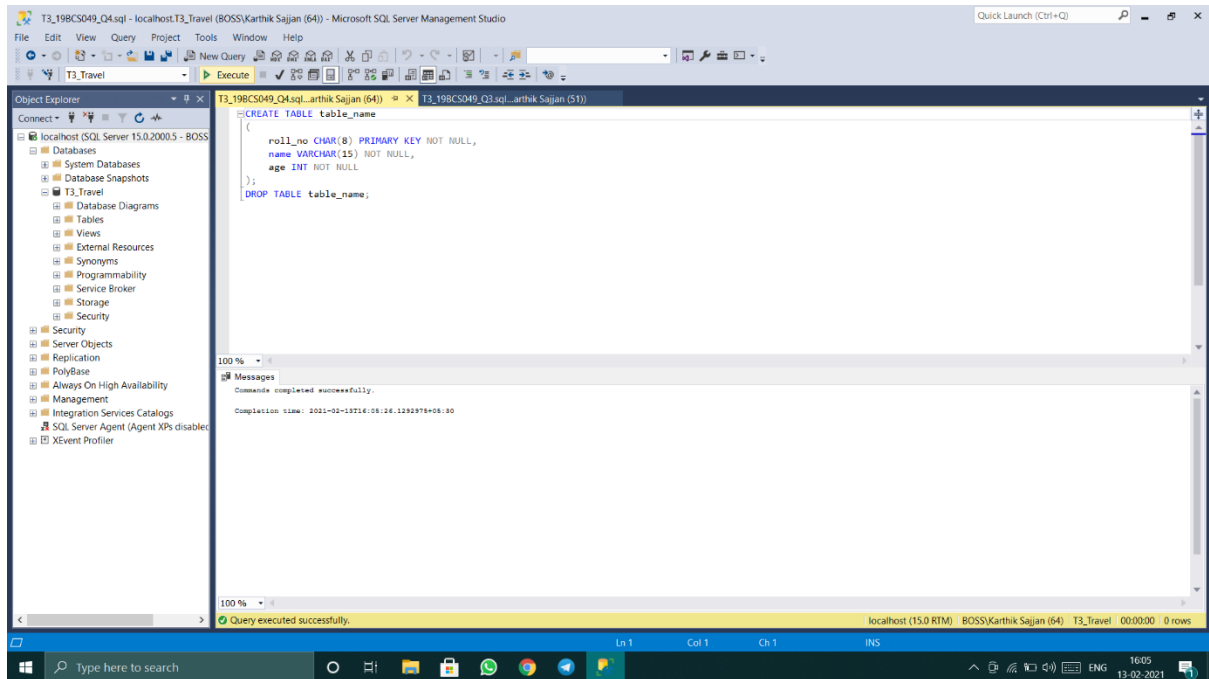
        car_model VARCHAR(10) NOT NULL,
        employee_id CHAR(5) FOREIGN KEY REFERENCES EmployeeDetails(employee_id) NOT
NULL,
        dateAndTime_Of_Pickup DATETIME NOT NULL,
        dateAndTime_Of_Drop DATETIME NOT NULL
    );
CREATE TABLE Bus
(
    package_name VARCHAR(15) FOREIGN KEY REFERENCES PackageDetails(package_name)
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
);

```



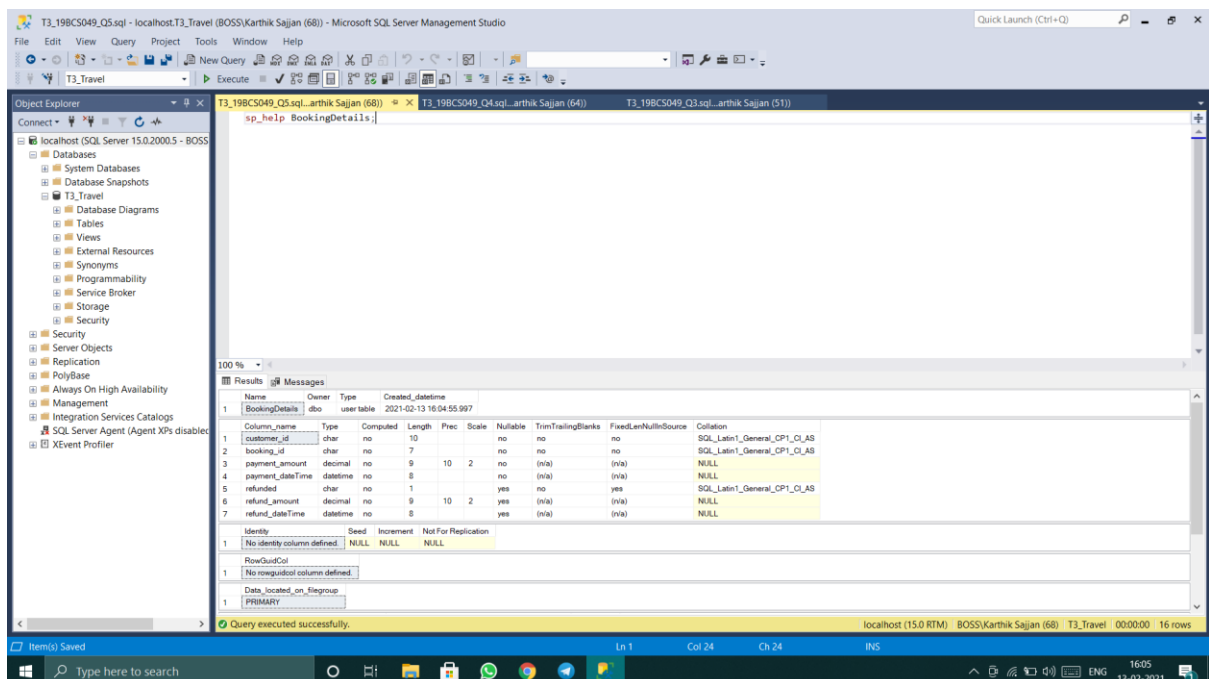
#### 4. Drop table

```
CREATE TABLE table_name
(
    roll_no CHAR(8) PRIMARY KEY NOT NULL,
    name VARCHAR(15) NOT NULL,
    age INT NOT NULL
);
DROP TABLE table_name;
```



#### 5. Show how to check the schema of the tables

**sp\_help** BookingDetails;



## 6. Show all the tables from the database

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'T3\_Travel' database selected. The right pane shows the 'Query Results' grid for the query `SELECT * FROM SYSOBJECTS WHERE xtype='U';`. The results list 18 tables, including system tables like `sysdiagrams` and user tables like `T3_Employee_Details`, `T3_Flight`, `T3_Bus`, `T3_Train`, `T3_Car`, `T3_Hotel_It_Destination`, `T3_Destination_Details`, `T3_Package_Details`, `T3_Booking_Details`, `T3_Customer_Details`, `T3_Package_Details`, `T3_Booking_Details`, `T3_Customer_Details`, `T3_Package_Details`, `T3_Booking_Details`, `T3_Customer_Details`, `T3_Package_Details`, and `T3_Booking_Details`.

name	id	xtype	uid	info	status	base_schema_ver	replinfo	parent_obj	create	fileid	schema_ver	stats_schema_ver	type	userstat	sysstat	indexdel	refdate	version	det
sysdiagrams	613577224	U	1	0	0	0	0	0	2021-02-05 00:22:07.163	0	0	0	U	1	3	0	2021-02-05 00:22:07.163	0	0
T3_Employee_Details	773677794	U	1	0	0	0	0	0	2021-02-05 01:17:20:537	0	0	0	U	1	3	0	2021-02-05 01:17:20:537	0	0
T3_Flight	788577851	U	1	0	0	0	0	0	2021-02-05 01:17:21:250	0	0	0	U	1	3	0	2021-02-05 01:17:21:250	0	0
T3_Bus	805577908	U	1	0	0	0	0	0	2021-02-05 01:17:21:340	0	0	0	U	1	3	0	2021-02-05 01:17:21:340	0	0
T3_Train	821577965	U	1	0	0	0	0	0	2021-02-05 01:17:21:540	0	0	0	U	1	3	0	2021-02-05 01:17:21:540	0	0
T3_Car	837578022	U	1	0	0	0	0	0	2021-02-05 01:17:21:620	0	0	0	U	1	3	0	2021-02-05 01:17:21:620	0	0
T3_Hotel_It_Destination	853578079	U	1	0	0	0	0	0	2021-02-05 01:17:21:730	0	0	0	U	1	3	0	2021-02-05 01:17:21:730	0	0
T3_Destination_Details	866578136	U	1	0	0	0	0	0	2021-02-05 01:17:21:810	0	0	0	U	1	3	0	2021-02-05 01:17:21:810	0	0
T3_Package_Details	885578193	U	1	0	0	0	0	0	2021-02-05 01:17:21:890	0	0	0	U	1	3	0	2021-02-05 01:17:21:890	0	0
T3_Booking_Details	901578250	U	1	0	0	0	0	0	2021-02-05 01:17:21:970	0	0	0	U	1	3	0	2021-02-05 01:17:21:970	0	0
T3_Customer_Details	917578307	U	1	0	0	0	0	0	2021-02-05 01:17:22:077	0	0	0	U	1	3	0	2021-02-05 01:17:22:077	0	0
T3_Package_Details	1557580567	U	1	0	0	0	0	0	2021-02-13 16:04:55:967	0	0	0	U	1	3	0	2021-02-13 16:04:55:967	0	0
T3_Booking_Details	1605580758	U	1	0	0	0	0	0	2021-02-13 16:04:56:000	0	0	0	U	1	3	0	2021-02-13 16:04:56:000	0	0
T3_Customer_Details	1653580929	U	1	0	0	0	0	0	2021-02-13 16:04:56:000	0	0	0	U	1	3	0	2021-02-13 16:04:56:000	0	0
T3_Package_Details	1701581100	U	1	0	0	0	0	0	2021-02-13 16:04:56:003	0	0	0	U	1	3	0	2021-02-13 16:04:56:003	0	0

## 7. Create Table using Select Statement.

```
SELECT employee_id, name INTO new_Employee_details FROM EmployeeDetails;
```

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'T3\_Travel' database selected. The right pane shows the 'Query Results' grid for the query `SELECT employee_id, name INTO new_Employee_details FROM EmployeeDetails;`. The results show '0 rows affected' and 'Completion time: 2021-02-13 16:04:56:003'. The status bar at the bottom indicates 'Query executed successfully'.

8. Create a table which has derived attribute.

```
CREATE TABLE new_CustomerDetails
(
    customer_id CHAR(10) PRIMARY KEY NOT NULL,
    first_name VARCHAR(20) NOT NULL,
    last_name VARCHAR(20) NOT NULL,
    dateOfBirth DATE NOT NULL,
    age AS DATEDIFF(YEAR, dateOfBirth, GETDATE()),
    gender CHAR(1) NOT NULL,
    phone VARCHAR(12) NOT NULL,
    address TEXT NOT NULL
);
```

