

DBMS LAB ASSIGNMENT – 2

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Q-1:

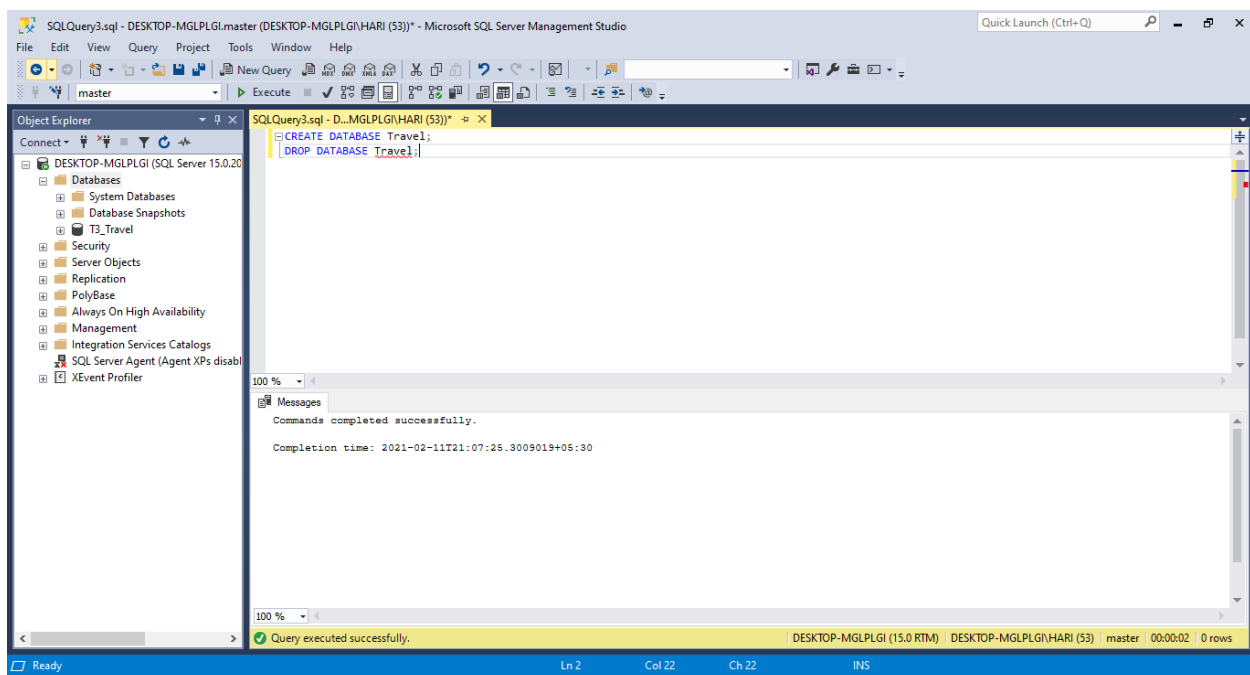
Show how to Create and Drop Database.

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:

The screenshot displays the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the server structure for 'DESKTOP-MGLPLGI (SQL Server 15.0.20...)' with categories like Databases, Security, and Server Objects. The 'Query Editor' in the center contains the SQL query: `SELECT * FROM sys.databases WHERE database_id > 0;`. The 'Results' pane at the bottom shows the output of the query as a table with 8 columns: name, database_id, source_database_id, owner_sid, create_date, compatibility_level, collation_name, and user_access. The table lists five databases: master, tempdb, model, msdb, and T3_Travel. A status bar at the bottom indicates the query was executed successfully.

	name	database_id	source_database_id	owner_sid	create_date	compatibility_level	collation_name	user_access
1	master	1	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0
2	tempdb	2	NULL	0x01	2021-02-11 00:10:36.880	150	SQL_Latin1_General_CP1_CI_AS	0
3	model	3	NULL	0x01	2003-04-08 09:13:36.390	150	SQL_Latin1_General_CP1_CI_AS	0
4	msdb	4	NULL	0x01	2019-09-24 14:21:42.270	150	SQL_Latin1_General_CP1_CI_AS	0
5	T3_Travel	5	NULL	0x01050000000000000515000000064616E9656C06C50E2B82...	2021-02-05 13:25:45.907	150	SQL_Latin1_General_CP1_CI_AS	0

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
(

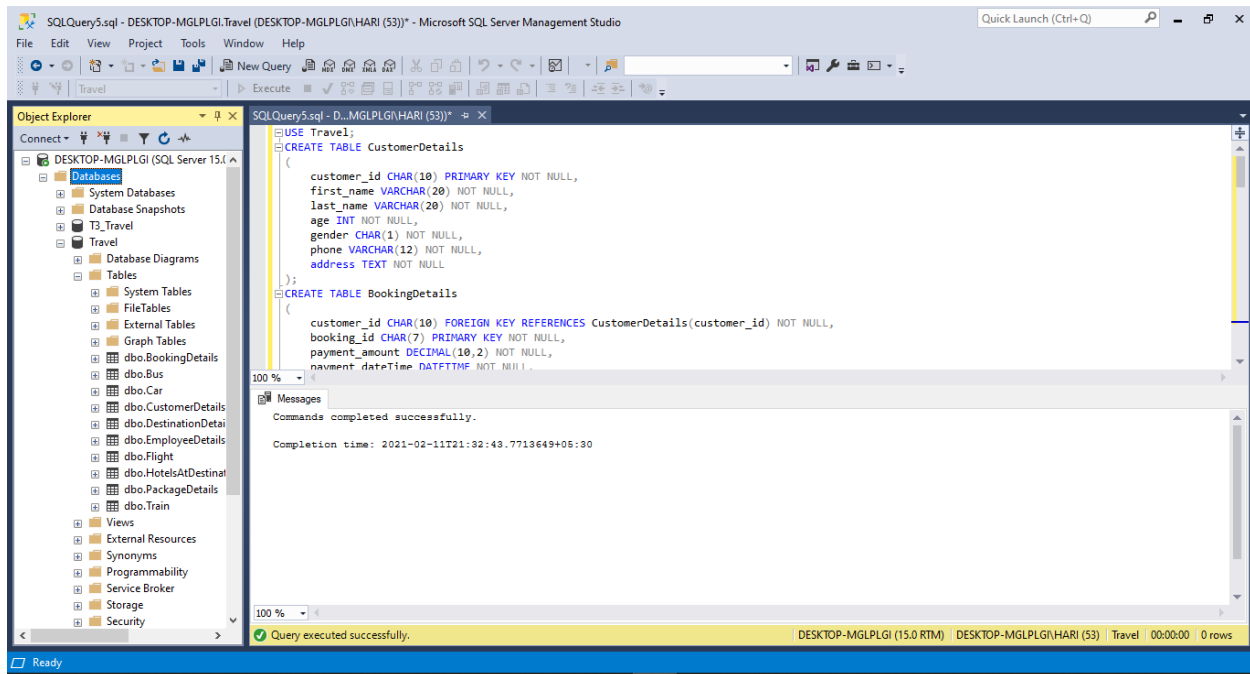
```

```

        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

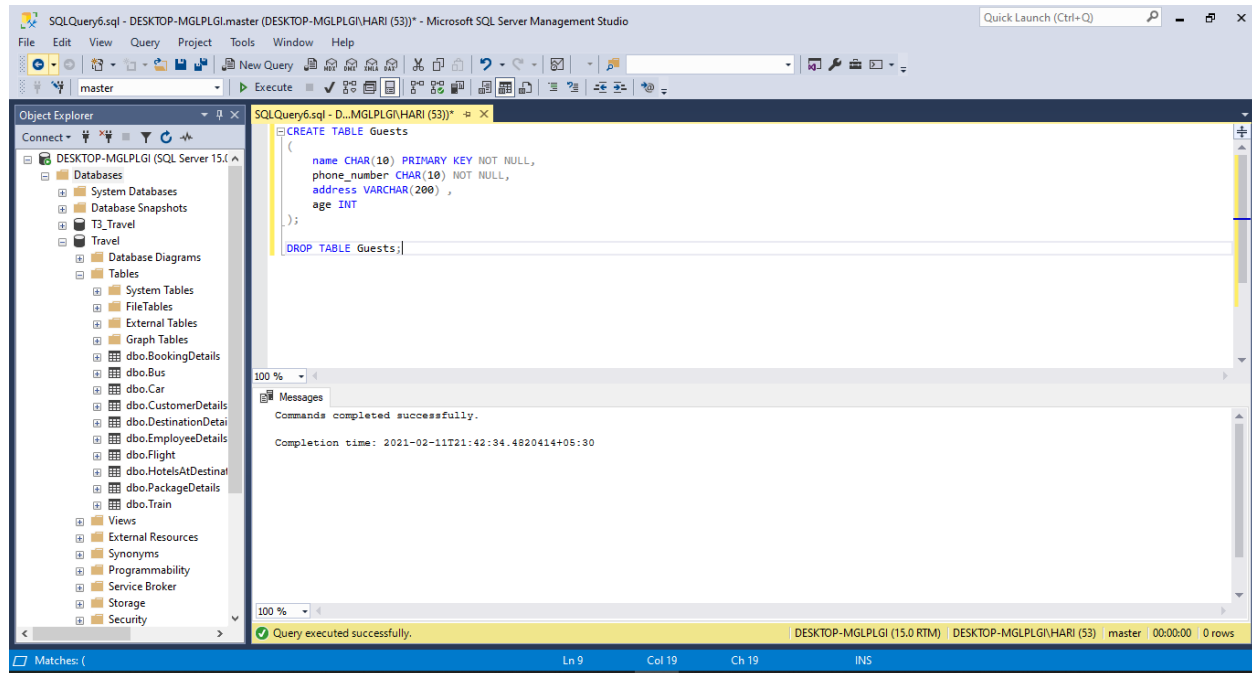
(

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:

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The top toolbar includes standard file and editing actions, as well as SQL-specific tools like 'Execute'. The 'Object Explorer' on the left shows the database structure, with 'Travel' selected. The 'Query Editor' in the center contains the command 'sp_help EmployeeDetails;'. The 'Results' pane at the bottom shows the output of the query, which includes the table's metadata and column details. The status bar at the bottom indicates the query was executed successfully, returning 13 rows.

Name	Owner	Type	Created_datetime
EmployeeDetails	dbo	user table	2021-02-11 21:32:43.740

Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
employee_id	char	no	5			no	no	no	SQL_Latin1_General_CP1_CI_AS
name	varchar	no	10			no	no	no	SQL_Latin1_General_CP1_CI_AS
designation	varchar	no	15			no	no	no	SQL_Latin1_General_CP1_CI_AS
phone_number	varchar	no	12			no	no	no	SQL_Latin1_General_CP1_CI_AS
salary	decimal	no	9	10	2	no	(n/a)	(n/a)	NULL

Identity	Seed	Increment	Not For Replication	
1	No identity column defined.	NULL	NULL	NULL

RowGuidCol

Query executed successfully. DESKTOP-MGLPLGI (15.0 RTM) DESKTOP-MGLPLGI\HARI (53) Travel 00:00:02 13 rows

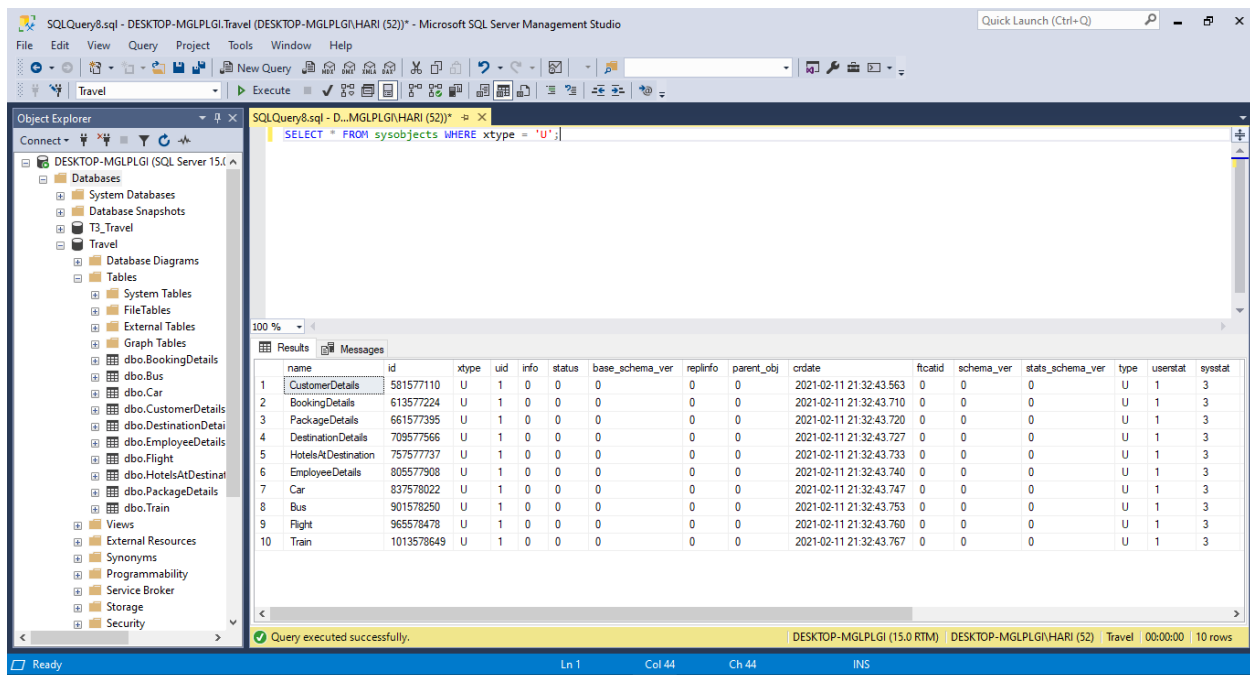
Q-6:

Show all the tables from the database

SOLUTION:

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

OUTPUT:



The screenshot displays the Microsoft SQL Server Management Studio interface. The query editor shows the following SQL statement:

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

The results pane shows 10 rows of data, representing user tables in the database. The columns include name, id, xtype, uid, info, status, base_schema_ver, replinfo, parent_obj, crdate, ftcid, schema_ver, stata_schema_ver, type, userstat, and sysstat.

	name	id	xtype	uid	info	status	base_schema_ver	replinfo	parent_obj	crdate	ftcid	schema_ver	stata_schema_ver	type	userstat	sysstat
1	CustomerDetails	581577110	U	1	0	0	0	0	0	2021-02-11 21:32:43.563	0	0	0	U	1	3
2	BookingDetails	613577224	U	1	0	0	0	0	0	2021-02-11 21:32:43.710	0	0	0	U	1	3
3	PackageDetails	661577395	U	1	0	0	0	0	0	2021-02-11 21:32:43.720	0	0	0	U	1	3
4	DestinationDetails	709577566	U	1	0	0	0	0	0	2021-02-11 21:32:43.727	0	0	0	U	1	3
5	HotelsAtDestination	757577737	U	1	0	0	0	0	0	2021-02-11 21:32:43.733	0	0	0	U	1	3
6	EmployeeDetails	805577908	U	1	0	0	0	0	0	2021-02-11 21:32:43.740	0	0	0	U	1	3
7	Car	837578022	U	1	0	0	0	0	0	2021-02-11 21:32:43.747	0	0	0	U	1	3
8	Bus	901578250	U	1	0	0	0	0	0	2021-02-11 21:32:43.753	0	0	0	U	1	3
9	Flight	965578478	U	1	0	0	0	0	0	2021-02-11 21:32:43.760	0	0	0	U	1	3
10	Train	1013578649	U	1	0	0	0	0	0	2021-02-11 21:32:43.767	0	0	0	U	1	3

The status bar at the bottom indicates: Query executed successfully. DESKTOP-MGLPLGI (15.0 RTM) DESKTOP-MGLPLGI\HARI (52) Travel 00:00:00 10 rows.

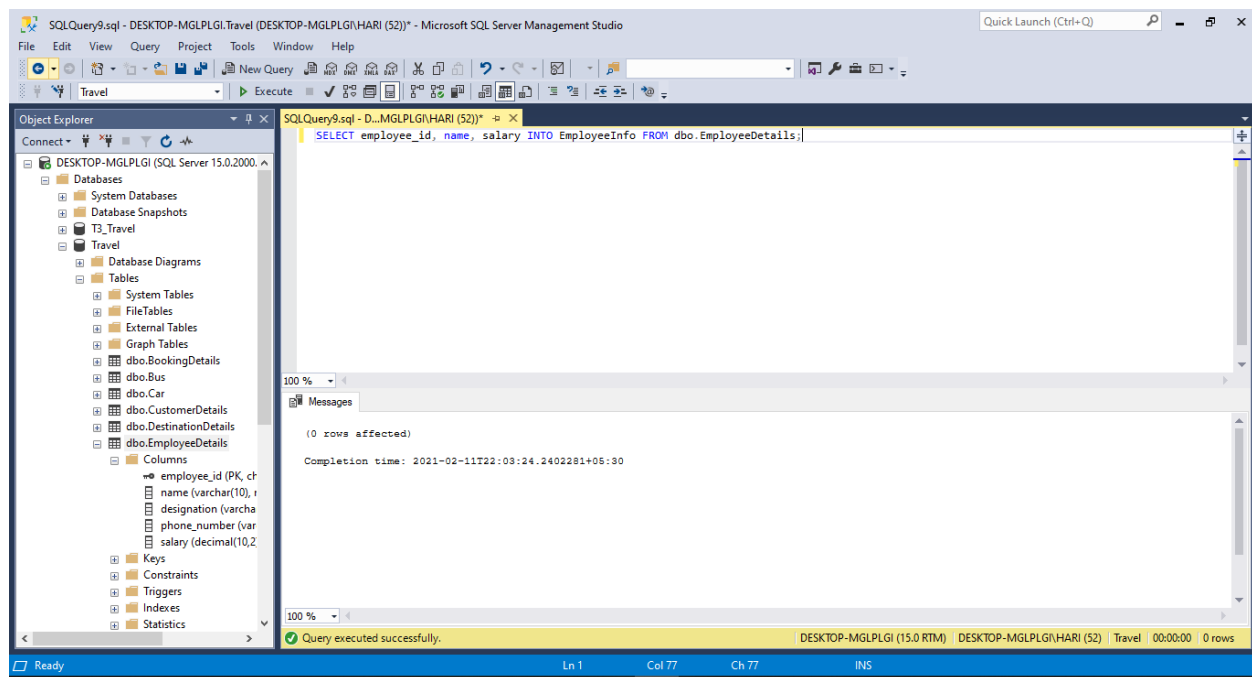
Q-7:

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:

