

DBMS LAB ASSIGNMENT-2

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19BCS052

Group 2

Q1) Show how to Create and Drop Database

SQL QUERY:

CREATE DATABASE HOTEL

DROP DATABASE HOTEL

OUTPUT:

```
CREATE DATABASE HOTEL
DROP DATABASE HOTEL
```

```
) %
Messages
Commands completed successfully.

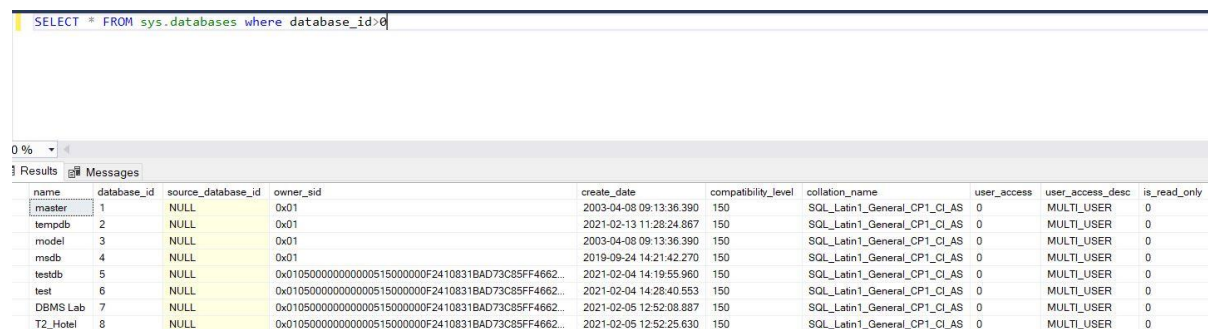
Completion time: 2021-02-13T11:33:04.7024244+05:30
```

Q2) Show all the Databases are in the system

SQL QUERY:

```
SELECT * FROM sys.databases where database_id>0
```

OUTPUT:



| name | database_id | source_database_id | owner_sid | create_date | compatibility_level | collation_name | user_access | user_access_desc | is_read_only |
|----------|-------------|--------------------|---|-------------------------|---------------------|------------------------------|-------------|------------------|--------------|
| master | 1 | NULL | 0x01 | 2003-04-08 09:13:36.390 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| tempdb | 2 | NULL | 0x01 | 2021-02-13 11:28:24.867 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| model | 3 | NULL | 0x01 | 2003-04-08 09:13:36.390 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| msdb | 4 | NULL | 0x01 | 2019-09-24 14:21:42.270 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| testdb | 5 | NULL | 0x010500000000000515000000F2410831BAD73C85FF4662... | 2021-02-04 14:19:55.960 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| test | 6 | NULL | 0x010500000000000515000000F2410831BAD73C85FF4662... | 2021-02-04 14:28:40.553 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| DBMS Lab | 7 | NULL | 0x010500000000000515000000F2410831BAD73C85FF4662... | 2021-02-05 12:52:08.887 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |
| T2_Hotel | 8 | NULL | 0x010500000000000515000000F2410831BAD73C85FF4662... | 2021-02-05 12:52:25.630 | 150 | SQL_Latin1_General_CP1_CI_AS | 0 | MULTI_USER | 0 |

Q3) Create table for your Database

SQL QUERY:

USE HOTEL;

CREATE TABLE T2_Customer(

Customer_ID INT PRIMARY KEY NOT NULL,

Customer_Name VARCHAR(30) NOT NULL,

Phone_number VARCHAR(12) NOT NULL,

City CHAR(20) NOT NULL,

State CHAR(20) NOT NULL,

Zipcode INT NOT NULL,

Email_ID VARCHAR(50),

);

CREATE TABLE T2_Rooms

(

Room_number INT PRIMARY KEY NOT NULL,

Room_Type VARCHAR(10) NOT NULL,

Room_location VARCHAR(10) NOT NULL,

number_of_beds INT NOT NULL,

Customer_ID INT FOREIGN KEY REFERENCES T2_Customer(Customer_ID) NOT NULL

);

CREATE TABLE T2_Reservation(

```

Reservation_number INT PRIMARY KEY NOT NULL,
Check_in_date DATE NOT NULL,
Check_out_date DATE NOT NULL,
Number_of_guests INT NOT NULL,
Reservation_date DATE NOT NULL,
Customer_ID INT FOREIGN KEY REFERENCES T2_Customer(Customer_ID) NOT
NULL,
Room_number INT FOREIGN KEY REFERENCES T2_Rooms(Room_number) NOT
NULL
);
CREATE TABLE T2_SERVICES(
Service_ID INT PRIMARY KEY NOT NULL,
Service_name CHAR(20) NOT NULL,
Service_cost INT NOT NULL,
Reservation_number INT FOREIGN KEY REFERENCES
T2_Reservation(Reservation_number) NOT NULL
);
CREATE TABLE T2_Billing(
Billing_# INT PRIMARY KEY NOT NULL,
Room_charge INT NOT NULL,
Credit_card VARCHAR(10) NOT NULL,
Payment_date DATE NOT NULL,
Customer_ID INT FOREIGN KEY REFERENCES T2_Customer(Customer_ID) NOT
NULL
);
CREATE TABLE T2_CUSTOMER_ADDRESS(
Customer_ID INT PRIMARY KEY FOREIGN KEY REFERENCES
T2_Customer(Customer_ID) NOT NULL,
Street VARCHAR(50) NOT NULL,
DNO VARCHAR(50) NOT NULL,
Zipcode INT NOT NULL,
City CHAR(20) NOT NULL,
State CHAR(20) NOT NULL,
);

```

OUTPUT:

```

USE HOTEL;
CREATE TABLE T2_Customer(
  Customer_ID INT PRIMARY KEY NOT NULL,
  Customer_Name VARCHAR(30) NOT NULL,
  Phone_number VARCHAR(12) NOT NULL,
  City CHAR(20) NOT NULL,
  State CHAR(20) NOT NULL,
  Zipcode INT NOT NULL,
  Email_ID VARCHAR(50),
);
CREATE TABLE T2_Rooms
(
  Room_number INT PRIMARY KEY NOT NULL,
  Room_Type VARCHAR(10) NOT NULL,
  Room_location VARCHAR(10) NOT NULL,
  number_of_beds INT NOT NULL,
  Customer_ID INT FOREIGN KEY REFERENCES T2_Customer(Customer_ID) NOT NULL
);
CREATE TABLE T2_Reservation(
  Reservation number INT PRIMARY KEY NOT NULL,

```

Messages

Commands completed successfully.

Completion time: 2021-02-13T12:17:01.5068261+05:30

Q4) Drop Table

SQL QUERY:

DROP Students

OUTPUT

```

CREATE TABLE Students
(
  StudentID INT PRIMARY KEY NOT NULL,
  Name VARCHAR(50) NOT NULL,
  Backlogs INT NOT NULL,
  Passed INT NOT NULL,
);
DROP TABLE Students

```

100 %

Messages

Commands completed successfully.

Completion time: 2021-02-13T12:23:34.0909710+05:30

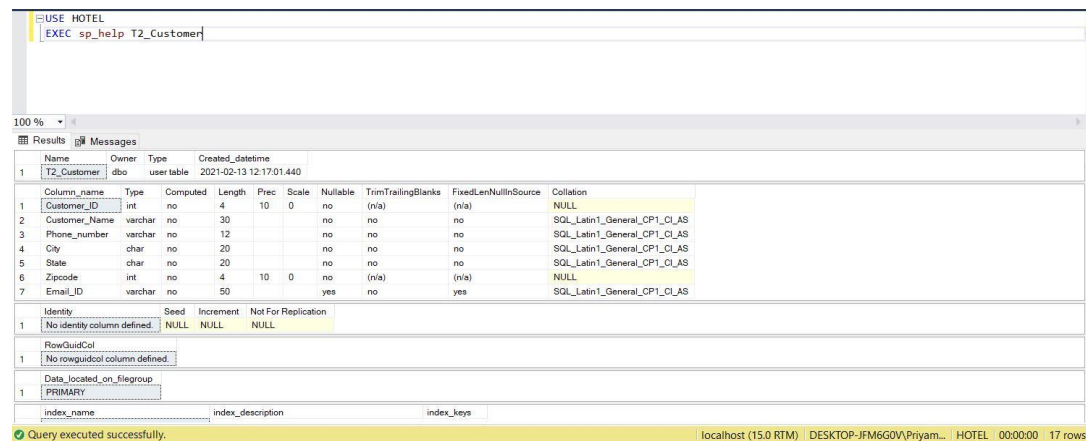
Q5) Show how to check the schema of the tables

SQL QUERY:

USE Database_name;

EXEC sp_help Table_name

OUTPUT



| Name | Owner | Type | Created_datetime |
|-------------|-------|------------|-------------------------|
| T2_Customer | dbo | user table | 2021-02-13 12:17:01.440 |

| Column_name | Type | Computed | Length | Prec | Scale | Nullable | TrimTrailingBlanks | FixedLenNullInSource | Collation |
|---------------|---------|----------|--------|------|-------|----------|--------------------|----------------------|------------------------------|
| Customer_ID | int | no | 4 | 10 | 0 | no | (n/a) | (n/a) | NULL |
| Customer_Name | varchar | no | 30 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| Phone_number | varchar | no | 12 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| City | char | no | 20 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| State | char | no | 20 | | | no | no | no | SQL_Latin1_General_CP1_CI_AS |
| Zipcode | int | no | 4 | 10 | 0 | no | (n/a) | (n/a) | NULL |
| Email_ID | varchar | no | 50 | | | yes | no | yes | SQL_Latin1_General_CP1_CI_AS |

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

| RowGuidCol |
|-------------------------------|
| No rowguidcol column defined. |

| Data_located_on_filegroup |
|---------------------------|
| PRIMARY |

| index_name | index_description | index_keys |
|------------|-------------------|------------|
| PRIMARY | | |

Query executed successfully. localhost (15.0 RTM) DESKTOP-JFM6G0V\Priyam... HOTEL 00:00:00 17 rows

Q6) Show all the tables from the database

SQL QUERY:

SELECT

*

FROM

information_schema.tables;

OUTPUT

SELECT *
FROM
information_schema.tables;

0 %

Results Messages

| TABLE_CATALOG | TABLE_SCHEMA | TABLE_NAME | TABLE_TYPE |
|---------------|--------------|---------------------|------------|
| HOTEL | dbo | T2_Customer | BASE TABLE |
| HOTEL | dbo | T2_Rooms | BASE TABLE |
| HOTEL | dbo | T2_Reservation | BASE TABLE |
| HOTEL | dbo | T2_SERVICES | BASE TABLE |
| HOTEL | dbo | T2_Billing | BASE TABLE |
| HOTEL | dbo | T2_CUSTOMER_ADDRESS | BASE TABLE |

Q7) Create table using Select statement

SQL QUERY:

SELECT * INTO newtable FROM oldtable WHERE <condition>

OUTPUT

SELECT * INTO Customer2 FROM T2_Customer;

10 %

Messages

(0 rows affected)

Completion time: 2021-02-13T12:34:43.0172499+05:30

Q8) Create a table which has derived attribute

SQL QUERY:

Attribute_name AS <condition>

OUTPUT