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**REG NO. : 19BCS104**

**SUBJECT : DBMS**

**GROUP : 2**

**DBMS LAB ASSIGNMENT**

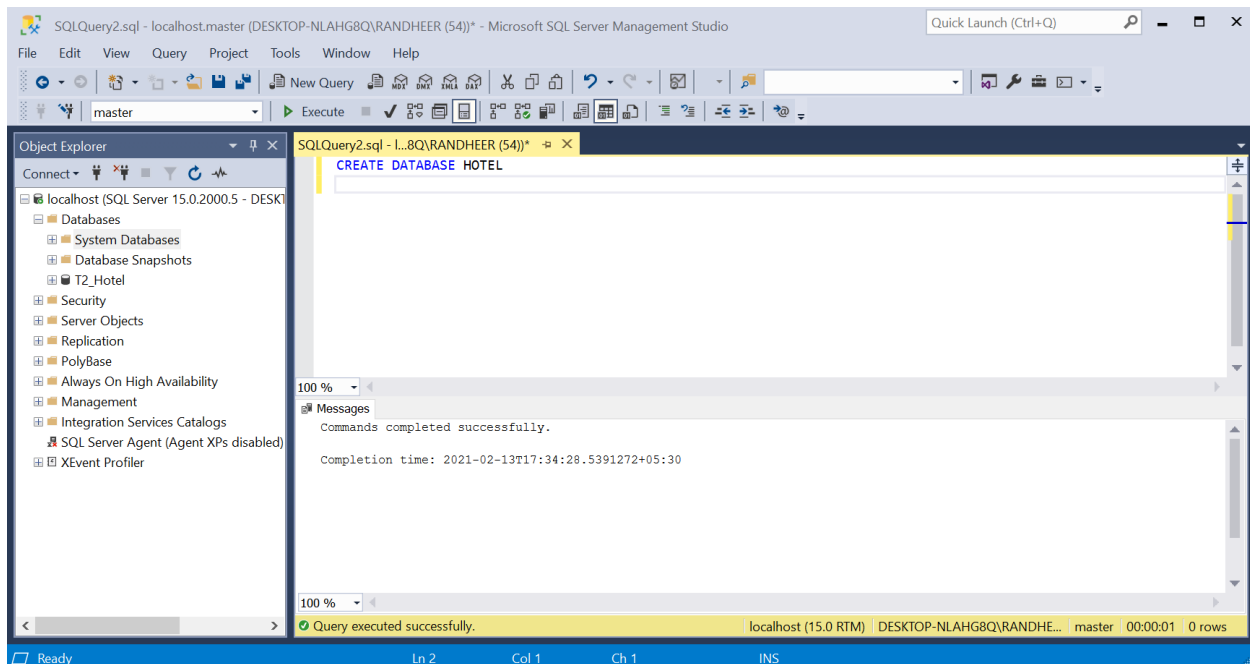
Q1) Show how to Create and Drop Database ?

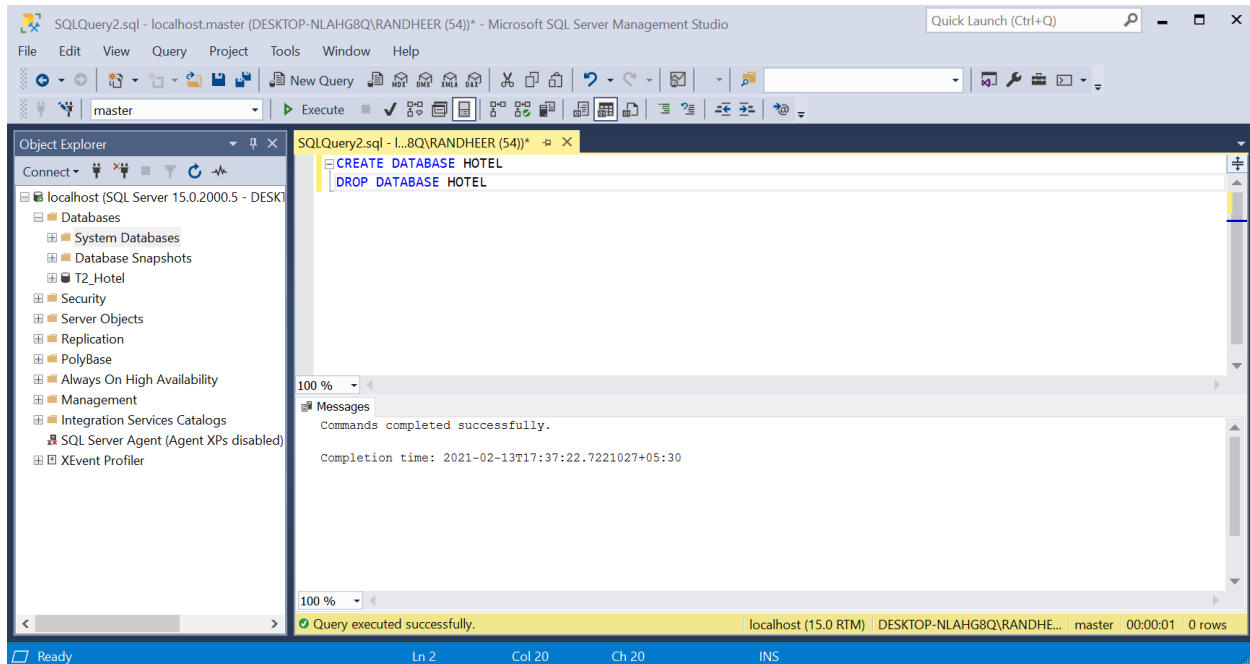
SQL QUERY:

CREATE DATABASE database\_name

DROP DATABASE database\_name

OUTPUT:



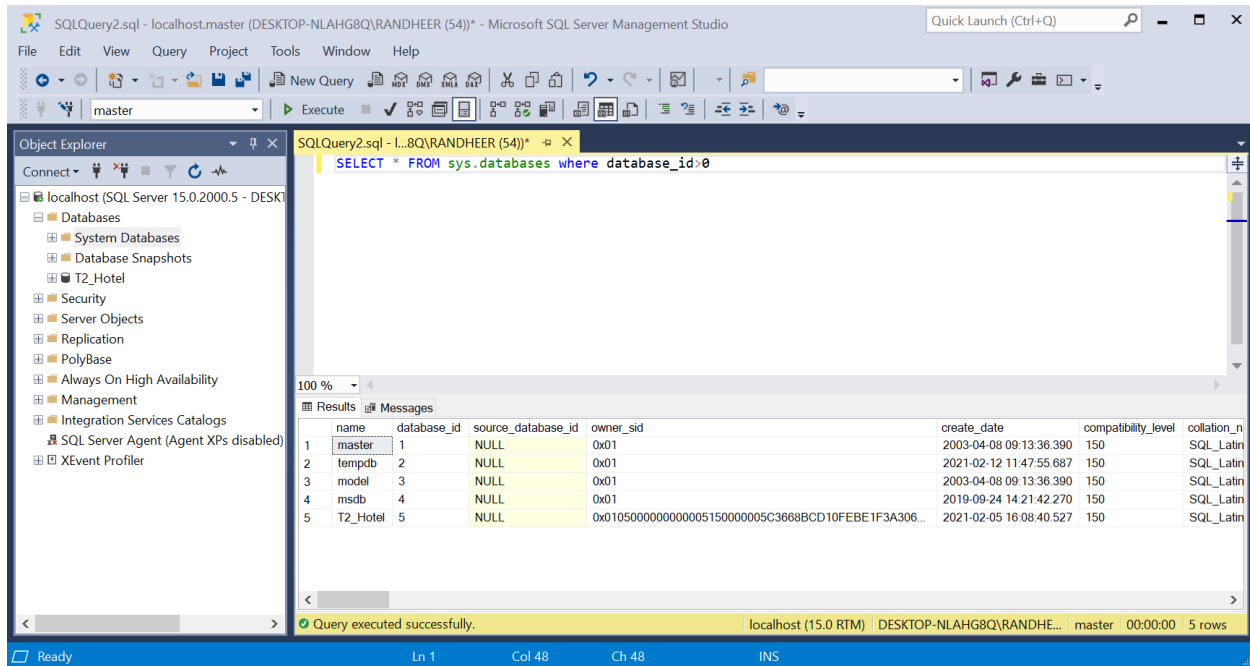


Q2) Show all the Databases are in the system ?

SQL QUERY:

SELECT \* FROM sys.databases where database\_id>0

## OUTPUT:



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
    );

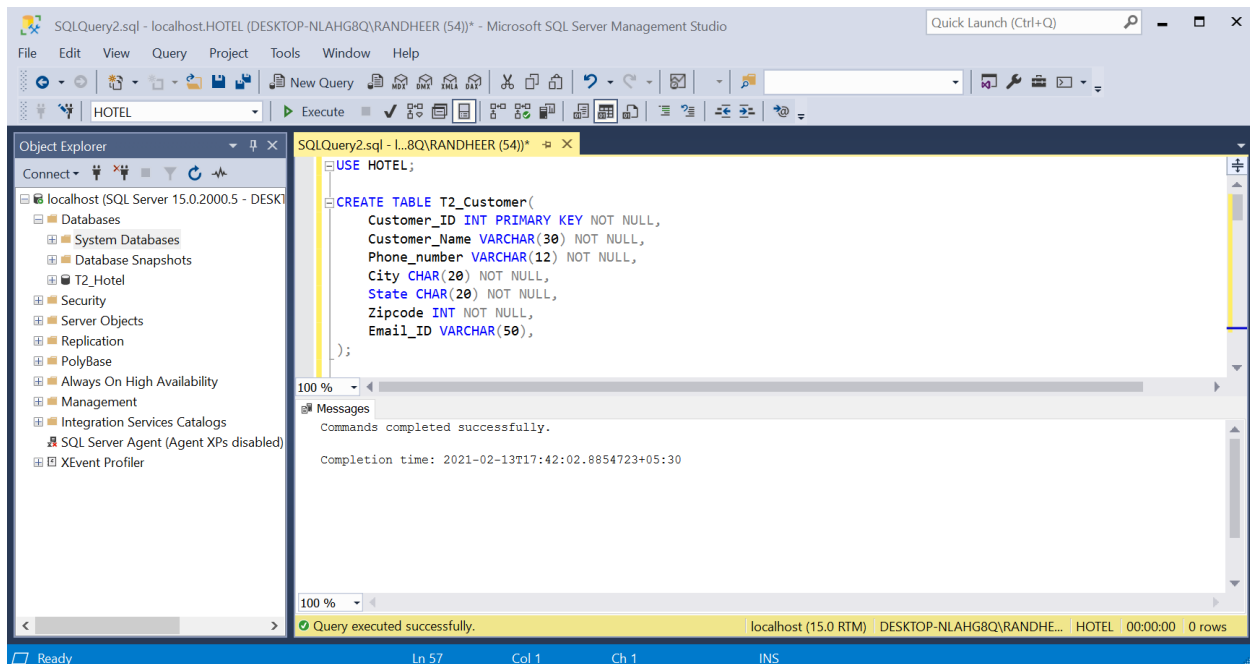
CREATE TABLE T2_SERVICES(
    Service_ID INT PRIMARY KEY NOT NULL,
    Service_name CHAR(20) NOT NULL,
    Service_cost INT NOT NULL,
    Reservation_number INT FOREIGN KEY REFERENCES T2_Reservation(Reservation_number)
NOT NULL
);

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:

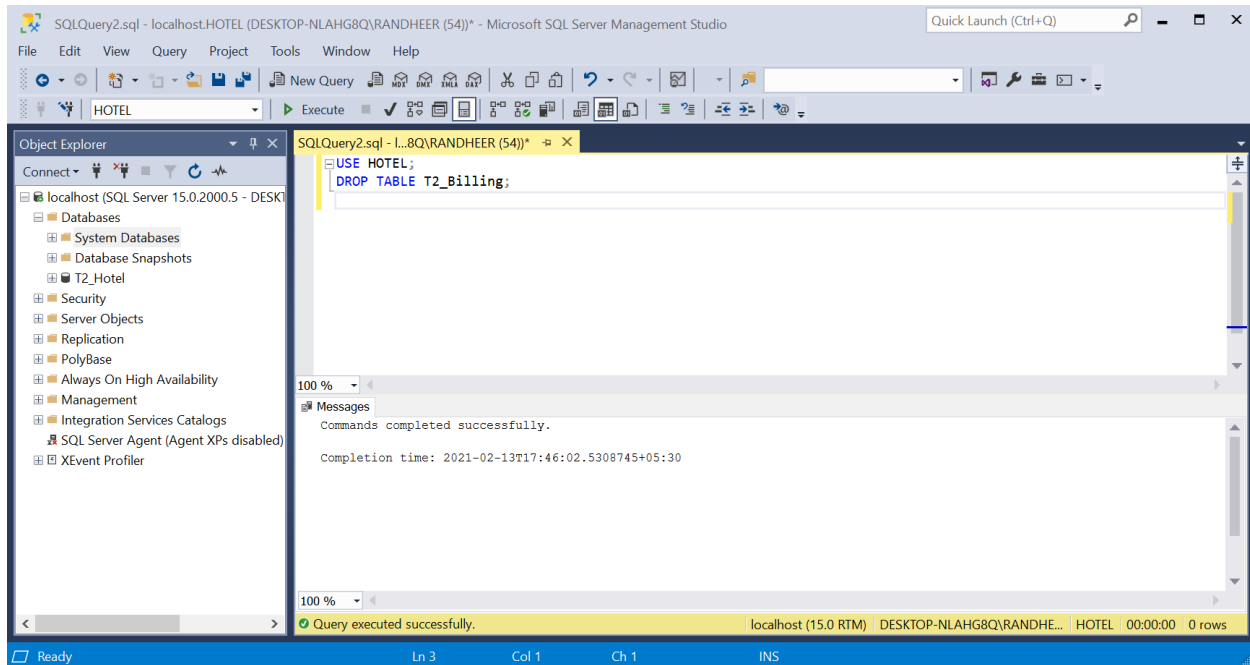


Q4) Drop Table ?

SQL QUERY:

DROP TABLE table\_name

OUTPUT:



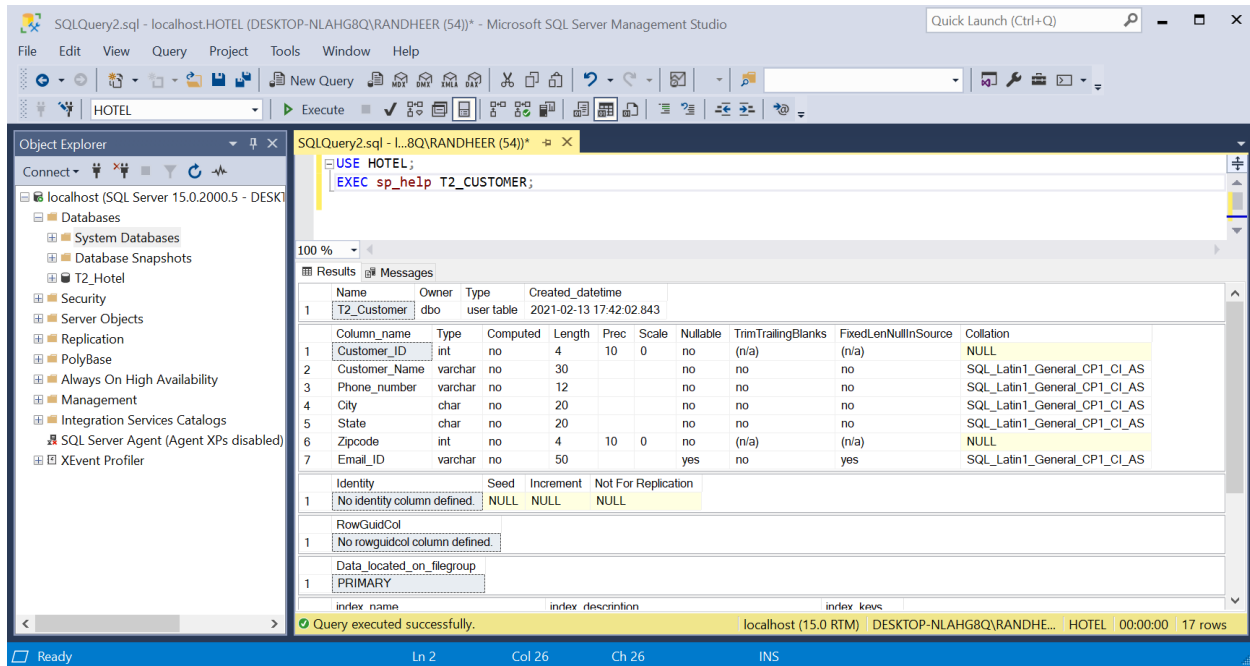
Q5) Show how to check the schema of the tables ?

SQL QUERY:

USE Dtabase\_name;

EXEC sp\_help Table\_name

## OUTPUT:



SQLQuery2.sql - localhost.HOTEL (DESKTOP-NLAHG8Q\RANDHEER (54)) - Microsoft SQL Server Management Studio

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - DESKTOP-NLAHG8Q\RANDHEER (54))

Databases

System Databases

Database Snapshots

T2\_Hotel

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler

SQLQuery2.sql - I...8Q\RANDHEER (54))

```
USE HOTEL;  
EXEC sp_help T2_CUSTOMER;
```

Results

Name	Owner	Type	Created_date	time
T2_Customer	dbo	user table	2021-02-13 17:42:02.843	

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

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

RowGuidCol
1 No rowguidcol column defined.

Data_located_on_filegroup
1 PRIMARY

index name	index description	index keys

Query executed successfully. localhost (15.0 RTM) DESKTOP-NLAHG8Q\RANDHEER (54) HOTEL 00:00:00 17 rows

Q6) Show all the tables from the database ?

SQL QUERY:

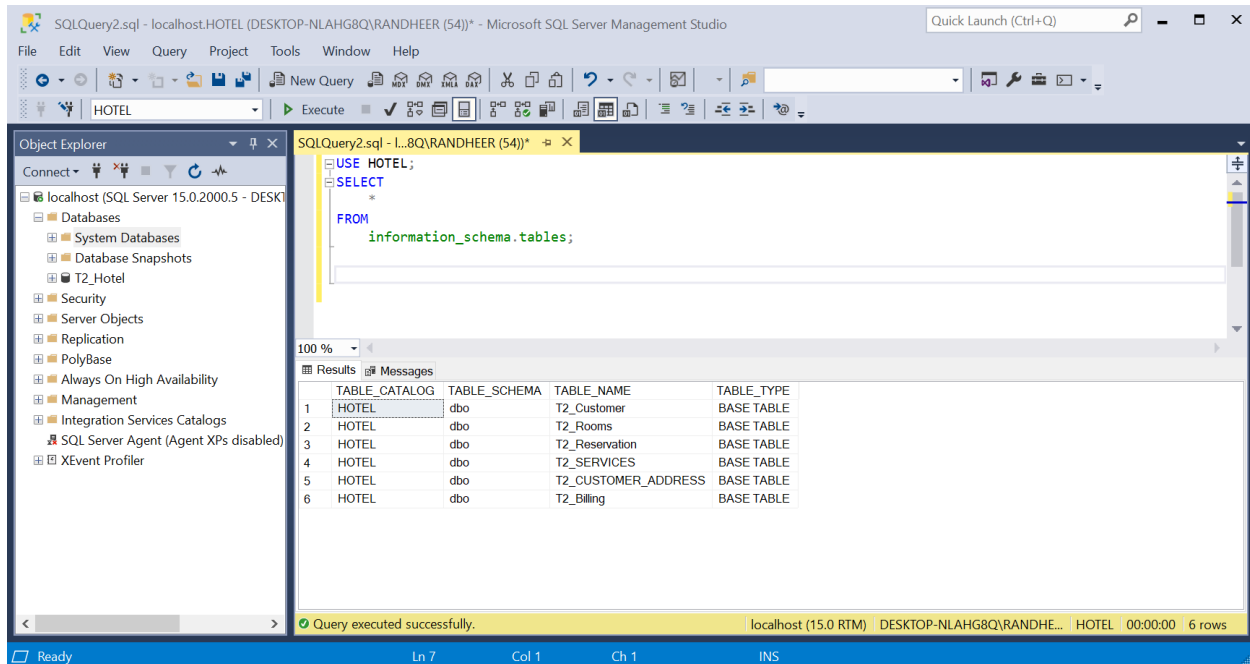
SELECT

\*

FROM

information\_schema.tables;

OUTPUT:

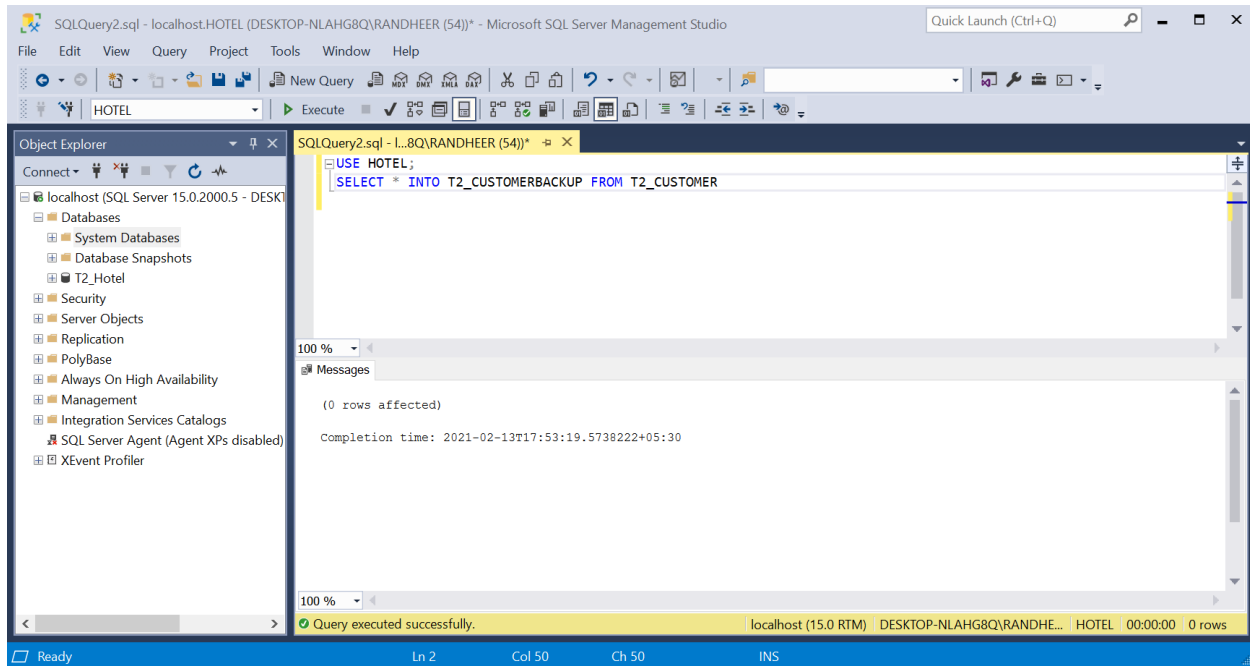


Q7) Create table using Select statement ?

SQL QUERY:

SELECT \* INTO newtable FROM oldtable WHERE <condition>

## OUTPUT:



Q8) Create a table which has derived attribute.

SQL QUERY:

Attribute\_name AS <condition>



## OUTPUT:

