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REG. NO. 19BCS104

SUBJECT: DBMS

DBMS LAB ASSIGNMENT-3

GROUP -2

Q1) Add, Modify and Delete Column using Alter

Command QUERY:

USE HOTEL;

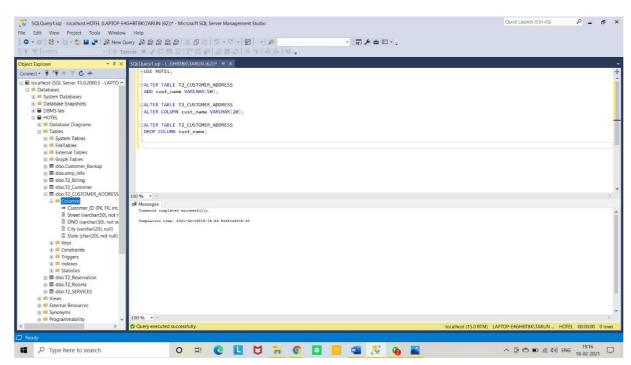
ALTER TABLE T2_CUSTOMER_ADDRESS

ADD cust name VARCHAR(50);

ALTER TABLE T2_CUSTOMER_ADDRESS ALTER COLUMN cust name VARCHAR(20);

ALTER TABLE T2_CUSTOMER_ADDRESS

DROP COLUMN cust name;



Q2) Insert 20 Employees Data into all the tables.

QUERY:

```
USE HOTEL:
INSERT INTO T2_Customer
VALUES("1", "Lofflin", "8688543748", "Nagpur", "MP", "534201", "loff@gmail.com");
INSERT INTO T2 Customer
VALUES("2", "Ram", "8688543744", "hyderabad", "TN", "534204", "Ram@gmail.com");
INSERT INTO T2 Customer
VALUES("3", "Mahesh", "8688543746", "Lucknow", "UP", "534205", "mah@gmail.com");
INSERT INTO T2 Customer
VALUES("4", "Prabha", "8688543766", "Bengaluru", "Karnataka", "534201", "prab@gmail.com");
INSERT INTO T2_CUSTOMER_ADDRESS(Customer_ID_Street_DNO_City_State) VALUES("1", "RP
NAGAR", '7-11", "Nagpur", "Madhya pradesh");
INSERT INTO T2_CUSTOMER_ADDRESS(Customer_ID,Street,DNO,City,State) VALUES("2", "Sriram
nagar','9-12','hyderabad','Telengana');
INSERT INTO T2 CUSTOMER ADDRESS(Customer ID, Street, DNO, City, State) VALUES("3", "JS
Nagar','7-13','Lucknow','Utter pradesh');
INSERT INTO T2_CUSTOMER_ADDRESS(Customer_ID,Street,DNO,City,State) VALUES("4","Indira
NAGAR", '7-8-12", "Bengaluru", "Karnataka");
INSERT INTO Customer_Backup SELECT * FROM T2_Customer; INSERT INTO
emp_info
VALUES("1", "Max", "1999/03/21");
INSERT INTO emp_info VALUES("2","Jax","1959/04/5");
INSERT INTO emp_info VALUES("3","Nax","1992/07/7");
INSERT INTO T2 Billing
VALUES("1","2000","1234567891","2021/09/5","1");
INSERT INTO T2 Billing
VALUES("2", "5000", "9876543211", "2021/05/5", "2");
INSERT INTO T2 Billing
VALUES("3","6000","1234987655","2021/09/30","3");
INSERT INTO T2_Billing
VALUES("4","3000","5546666666","2021/12/11","4");
INSERT INTO T2_Rooms
VALUES("1", "Deluxe", "block-2', "2", "2");
INSERT INTO T2_Rooms
VALUES('2', 'Economic', 'block-1', '3', '1');
INSERT INTO T2_Rooms
VALUES("3", "Deluxe", "block-2', "1", "4");
```

```
VALUES('1','1999/02/3','1999/02/22','5','1999/02/1','2','1');

INSERT INTO T2_Reservation

VALUES('2','1999/02/3','1999/02/22','4','1999/02/3','1','2');

INSERT INTO T2_Reservation

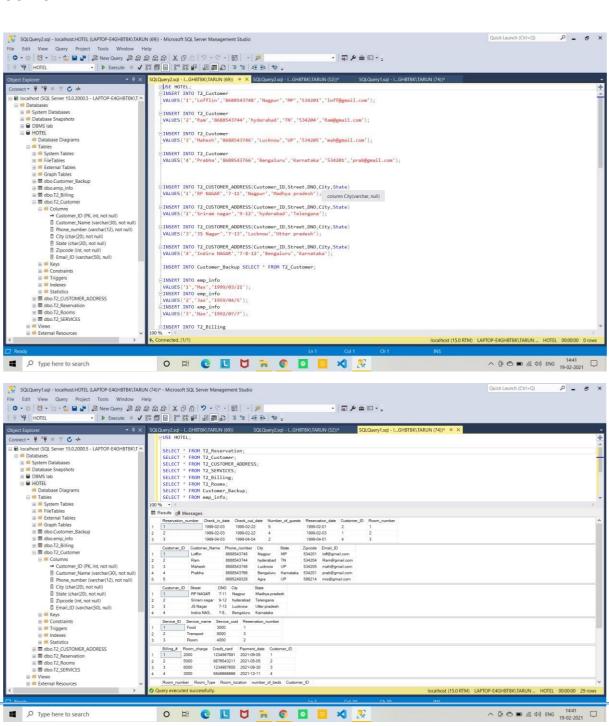
VALUES('3','1999/04/3','1999/04/4','2','1999/04/1','4','3');

INSERT INTO T2_SERVICES VALUES('1','Food','3000','1');

INSERT INTO T2_SERVICES

VALUES('2','Transport','8000','3');

INSERT INTO T2_SERVICES VALUES('3','Room','4000','2');
```



Q3) Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.

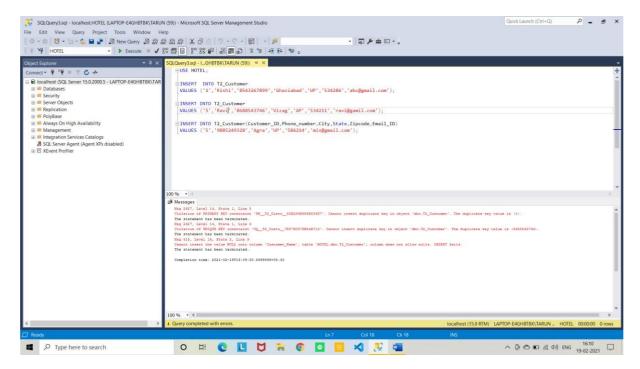
QUERY:

```
INSERT INTO T2_Customer
VALUES
('1', 'Rishi', '8543267899', 'Ghaziabad', 'UP', '534286', 'abc@gmail.com');

INSERT INTO T2_Customer
VALUES
('5', 'Ravi', '8688543746', 'Vizag', 'AP', '534211', 'ravi@gamil.com');

INSERT INTO
T2_Customer(Customer_ID_Phone_number, City, State, Zipcode, Email_ID)
VALUES ('5', '9885249328', 'Agra', 'UP', '586214', 'mis@gmail.com');
```

OUTPUT:

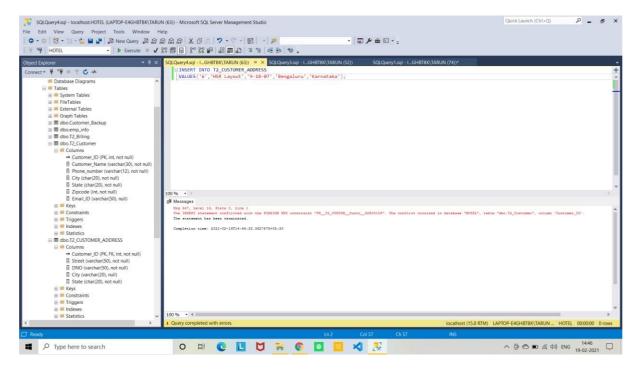


Q4) Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.

QUERY:

```
INSERT INTO T2_CUSTOMER_ADDRESS
VALUES("6", "HSR Layout", '9-18-07", "Bengaluru", "Karnataka");
```

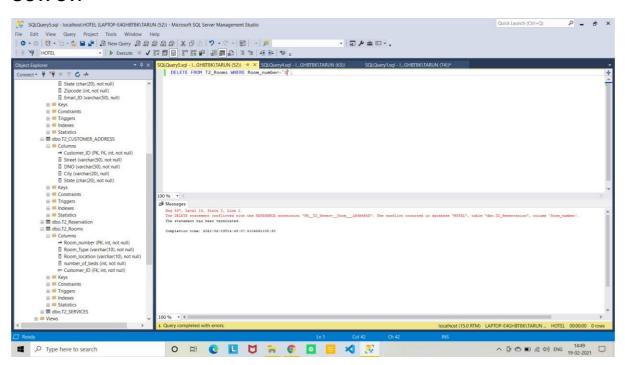
OUPUT:



Q5) Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error

QUERY:

DELETE FROM T2 Rooms WHERE Room number= 2;



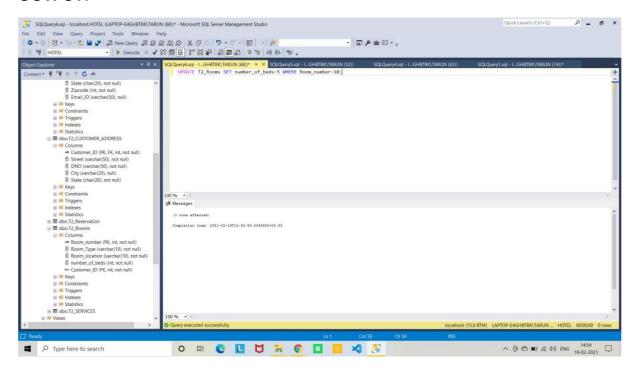
The error occurs because when we delete a record from the base table, we should make sure that all the related dependent tables records are deleted prior. Otherwise, there will be redundant data all over the database.

Q6) Try to update a non-existing entity data and check for error.

QUERY:

UPDATE T2_Rooms SET number_of_beds=5 WHERE Room_number=10;

OUTPUT:

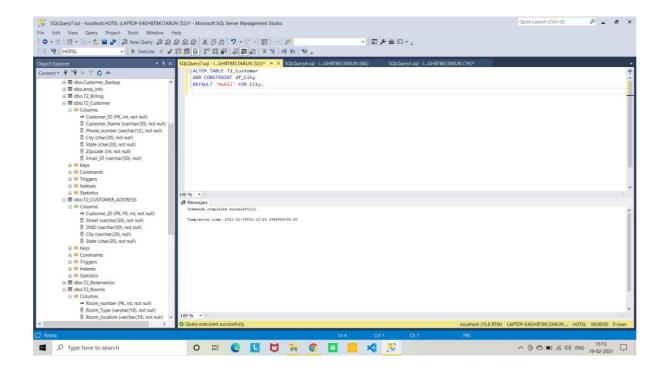


Q7) Add a column which has

DefaultValue.

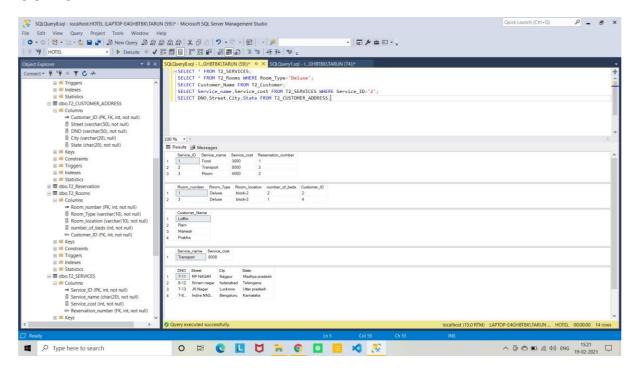
QUERY:

```
ALTER TABLE T2_Customer
ADD CONSTRAINT df_City
DEFAULT 'Hubli' FOR City;
```



Q8) 5 Simple Select queries to retrieve data from your database QUERY:.

```
SELECT * FROM T2_SERVICES;
SELECT * FROM T2_Rooms WHERE Room_Type='Deluxe';
SELECT Customer_Name FROM T2_Customer;
SELECT Service_name, Service_cost FROM T2_SERVICES WHERE Service_ID='2';
SELECT DNO, Street, City, State FROM T2_CUSTOMER_ADDRESS;
```



Q9) Show how Foreign key constraint effects Updating a dependent table when value is not existing and in Base table where the value is referred and you want to update it.

QUERY:

```
UPDATE T2_Rooms SET number_of_beds=1 WHERE Room_Type= Deluxe;
```

