# DBMS LAB ASSIGNMENT - 3

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# <u>Q-1:</u>

Add, Modify and Delete Column using Alter Command

# CODE:

# Add:

USE Travel;
ALTER TABLE CustomerDetails
ADD email varchar(50);

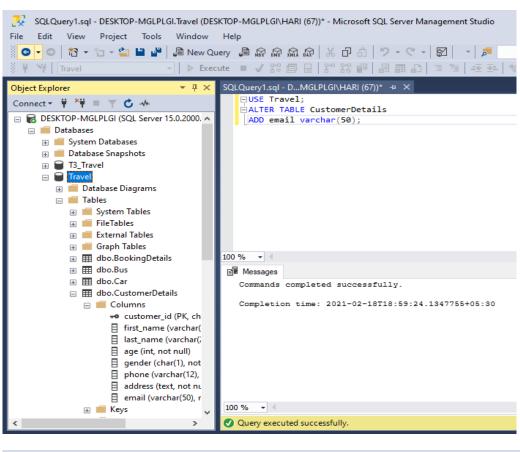
# Modify:

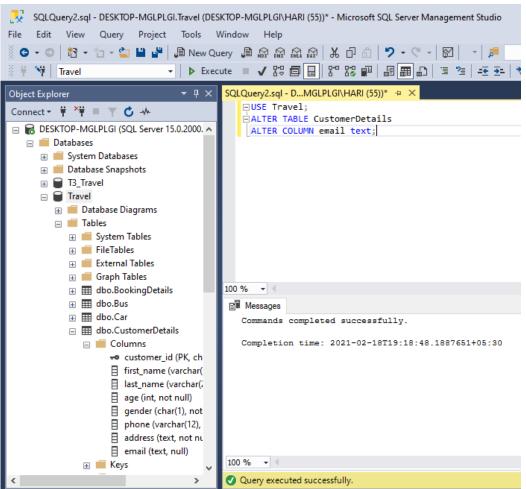
USE Travel;
ALTER TABLE CustomerDetails
ALTER COLUMN email text;

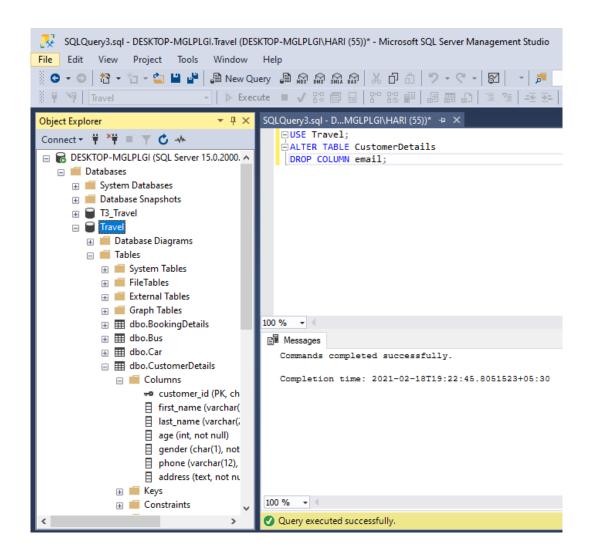
# Delete:

USE Travel;
ALTER TABLE CustomerDetails
DROP COLUMN email;

### **OUTPUTS:**







# Q-2:

Insert 20 Employee Details into all the tables. Use all the 3 methods that I have showcased

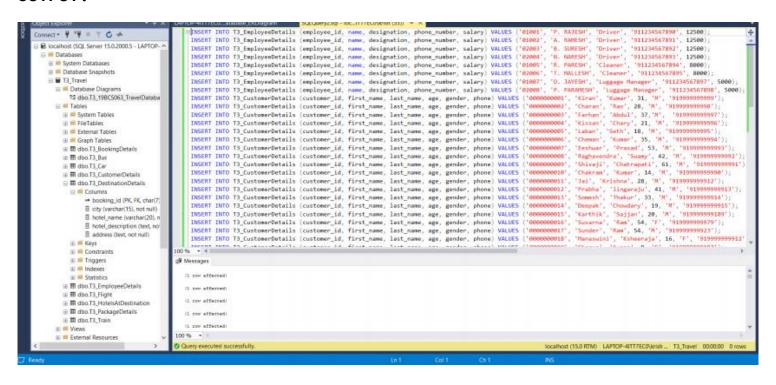
#### CODE:

```
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('01001', 'P. RAJESH', 'Driver', '911234567890', 12500);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('01002', 'A. RAMESH', 'Driver', '911234567891', 12500);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('02003', 'B. SURESH', 'Driver', '911234567892', 12500);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('02004', 'N. NARESH', 'Driver', '911234567893', 12500);
```

```
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
('01005', 'R. PARESH', 'Cleaner', '911234567894', 8000);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
('02006', 'T. MALLESH', 'Cleaner', '911234567895', 8000);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('01007', '0. JAYESH', 'Luggage Manager', '911234567897', 5000);
INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary)
VALUES
('02008', 'P. PARAMESH', 'Luggage Manager', '911234567898', 5000);
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000001', 'Kiran', 'Kumar', 31, 'M', '91999999999');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000002', 'Charan', 'Rao', 28, 'M', '91999999998');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('000000003', 'Farhan', 'Abdul', 37,'M', '91999999997');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000004', 'Kissan', 'Chary', 21, 'M', '91999999996');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000005', 'Laban', 'Seth', 18, 'M', '91999999995');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000006', 'Cheman', 'Kumar', 35, 'M', '91999999994');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000007', 'Eeshwar', 'Prasad', 53, 'M', '91999999993');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000008', 'Raghavendra', 'Swamy', 42, 'M', '919999999992');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000009', 'Shivaji', 'Chatrapati', 61, 'M', '919999999991');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000010', 'Chakram', 'Kumar', 14, 'M', '91999999990');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000011', 'Jai', 'Krishna', 28, 'M', '919999999912');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000012', 'Prabha', 'lingaraju', 41, 'M', '919999999913');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000013', 'Somesh', 'Thakur', 33, 'M', '919999999914');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('000000014', 'Deepak', 'Chowdary', 19, 'M', '91999999915');
```

```
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000015', 'Karthik', 'Sajjan', 20, 'M', '919999999189');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
('0000000016', 'Suvarna', 'Ram', 54, 'F', '919999999999');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000017', 'Sunder', 'Ram', 54, 'M', '919999999923');
INSERT INTO T3 CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000018', 'Manaswini', 'Ksheeraja', 16, 'F', '919999999122');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000019', 'Shreya', 'Kuppa', 8, 'F', '919999999187');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000020', 'Srinidhi', 'Kuppa', 5, 'F', '91999999964');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000001', '0100001', 25000, '2021-02-19T09:37:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000002', '0100002', 25000, '2021-02-19T09:42:00');
INSERT INTO T3 BookingDetails (customer id, booking id, payment amount, payment dateTime)
VALUES ('0000000003', '0100003', 25000, '2021-02-19T09:16:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000004', '0100004', 25000, '2021-02-19T09:07:00');
INSERT INTO T3 BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000005', '0100005', 25000, '2021-02-19T09:34:00');
INSERT INTO T3 BookingDetails (customer id, booking id, payment amount, payment dateTime)
VALUES ('0000000006', '0100006', 25000, '2021-02-19T09:12:00');
INSERT INTO T3 BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000007', '0100007', 25000, '2021-02-19T09:18:00');
INSERT INTO T3 BookingDetails (customer id, booking id, payment amount, payment dateTime)
VALUES ('0000000008', '0100008', 25000, '2021-02-19T09:58:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000009', '0100009', 25000, '2021-02-19T09:54:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000010', '0100010', 25000, '2021-02-19T11:12:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000011', '0200011', 50000, '2021-02-19T11:13:00');
INSERT INTO T3 BookingDetails (customer id, booking id, payment amount, payment dateTime)
VALUES ('0000000012', '0200012', 50000, '2021-02-19T10:18:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000013', '0200013', 50000, '2021-02-19T10:20:00');
INSERT INTO T3 BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000014', '0200014', 50000, '2021-02-19T10:25:00');
INSERT INTO T3 BookingDetails (customer id, booking id, payment amount, payment dateTime)
VALUES ('0000000015', '0200015', 50000, '2021-02-19T10:38:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000016', '0200016', 50000, '2021-02-19T10:42:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000017', '0200017', 50000, '2021-02-19T10:16:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000018', '0200018', 50000, '2021-02-19T10:11:00');
```

```
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000019', '0200019', 50000, '2021-02-19T10:09:00');
INSERT INTO T3_BookingDetails (customer_id, booking_id, payment_amount, payment_dateTime)
VALUES ('0000000020', '0200020', 50000, '2021-02-19T10:14:00');
INSERT INTO T3_PackageDetails (package_name, package_description, cost, starting_point, booking_id)
SELECT 'Kulu Manali', 'Chill Out!', 25000.00, 'Hyderabad', booking_id FROM
T3_BookingDetails
WHERE booking_id LIKE '01____';
INSERT INTO T3_PackageDetails (package_name, package_description, cost, starting_point, booking_id)
SELECT 'Manasarovar', 'Have a nice glimpse of Nature!', 50000.00, 'Hyderabad', booking_id
FROM
T3_BookingDetails WHERE booking_id LIKE '02____';
```



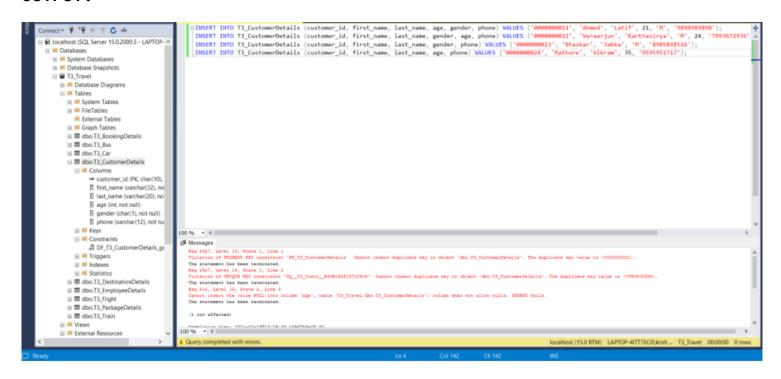
## Q-3:

Show Violation of Primary Key, Unique Not Null and Default Key constraints through insertion.

### CODE:

```
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES
('0000000021', 'Ahmed', 'Latif', 21, 'M', '9898989898');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, gender, age, phone)
VALUES
('0000000022', 'Veraarjun', 'Karthavirya', 'M', 24, '7993672936');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, gender, phone) VALUES
('0000000023', 'Bhaskar', 'Jakka', 'M', '8985898516');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, phone) VALUES
('0000000024', 'Rathore', 'Vikram', 35, '9595951717');
```

#### **OUTPUT:**



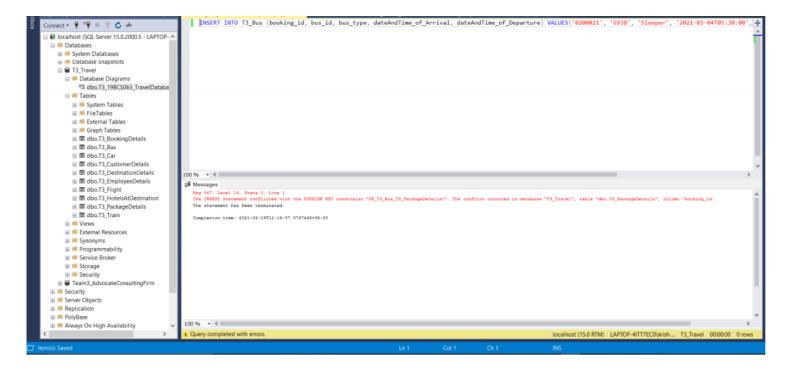
# Q-4:

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

### CODE:

```
INSERT INTO T3_Bus (booking_id, bus_id, bus_type,
dateAndTime_of_Arrival,
dateAndTime_of_Departure) VALUES('0200021', '6938', 'Sleeper', '2021-03-
04T05:30:00', '2021-03-
08T15:15:00');
```

#### **OUTPUT:**

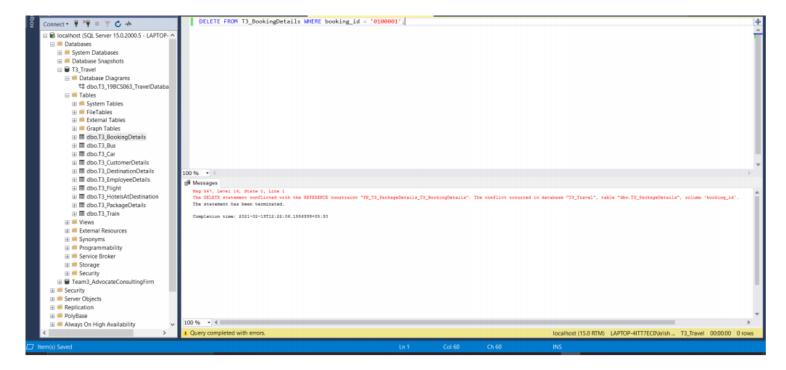


# Q-5:

Show Violation of Foreign Key Constraints when you try to delete from a base table. If you get an error explain why deletion give an error

#### CODE:

DELETE FROM T3\_BookingDetails WHERE booking\_id = '0100001';



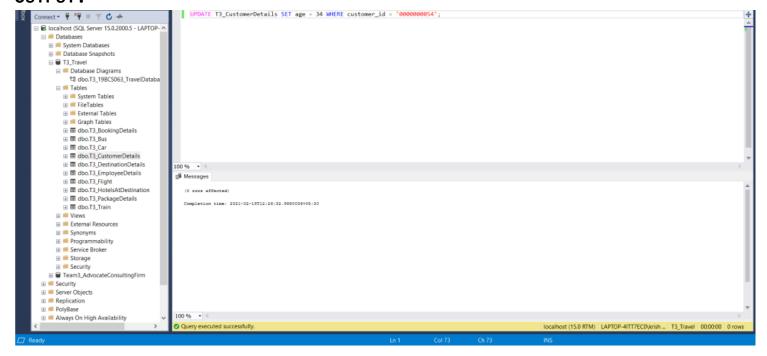
The Query did not execute because whenever we aim to delete a record from the base table, we need to ensure that all the related dependent table records are deleted prior. Otherwise, there will be redundant data all over the database.

### Q-6:

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

### CODE:

UPDATE T3\_CustomerDetails SET age = 34 WHERE customer\_id = '0000000054';



Here, we tried to update a non-existing entity of an entity set. This doesn't give an error but does no effect on the existing entities.

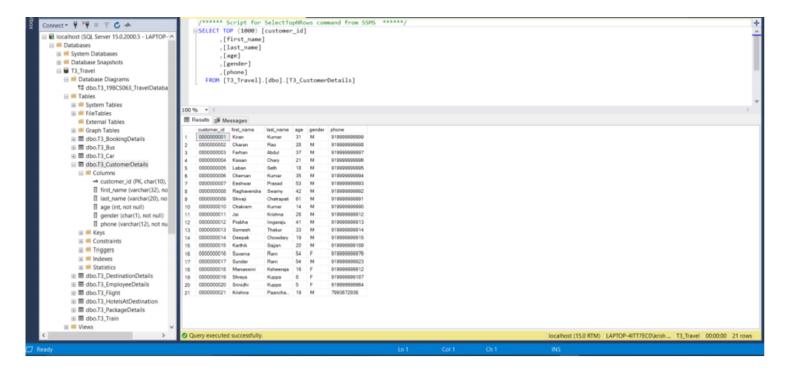
# <u>Q-7:</u>

Add a column which has default value.

### CODE:

```
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, phone)
VALUES
('0000000022', 'Killadi', 'Santeswar', 19, '7995282469');
```

#### **OUTPUT:**



# Q-8:

5 Simple select queries to retrieve data from your database.

### CODE:

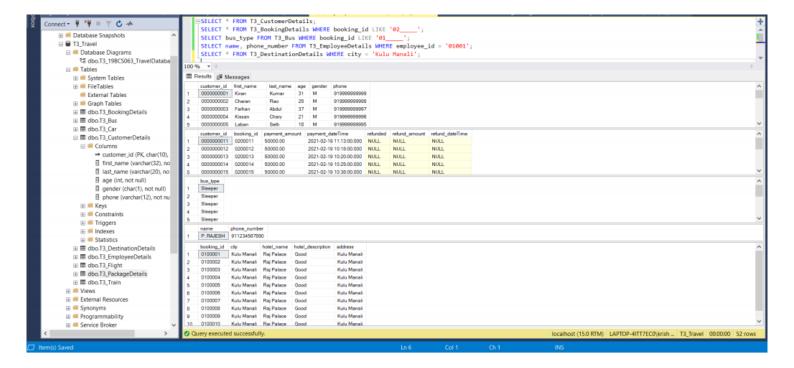
```
SELECT * FROM T3_CustomerDetails;

SELECT * FROM T3_BookingDetails WHERE booking_id LIKE '02____';

SELECT bus_type FROM T3_Bus WHERE booking_id LIKE '01____';

SELECT name, phone_number FROM T3_EmployeeDetails WHERE employee_id = '01001';

SELECT * FROM T3_DestinationDetails WHERE city = 'Kulu Manali';
```



# Q-9:

Show how Foreign Key constraints 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.

### CODE:

UPDATE T3\_Bus SET bus\_type = '2 Seater' WHERE bus\_id = '6938';

### **OUTPUT:**

