NAME: KARUSALA DEEPAK CHOWDARY
REGISTRATION NUMBER: 19BCS050
DBMS LAB ASSIGNMENT – 3
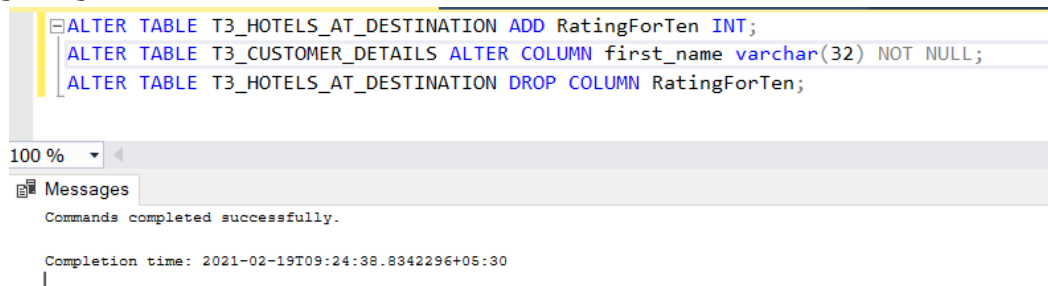# TRAVEL AGENCY

1. **Add, Modify and Delete Column using Alter Command**
   QUERY
   ALTER TABLE T3_HOTELS_AT_DESTINATION ADD RatingForTen INT;
   ALTER TABLE T3_CUSTOMER_DETAILS ALTER COLUMN first_name varchar(32) NOT NULL;
   ALTER TABLE T3_HOTELS_AT_DESTINATION DROP COLUMN RatingForTen;
   OPUTPUT

   ```
   ALTER TABLE T3_HOTELS_AT_DESTINATION ADD RatingForTen INT;
   ALTER TABLE T3_CUSTOMER_DETAILS ALTER COLUMN first_name varchar(32) NOT NULL;
   ALTER TABLE T3_HOTELS_AT_DESTINATION DROP COLUMN RatingForTen;
   ```

   100 %

   Messages
   Commands completed successfully.

   Completion time: 2021-02-19T09:24:38.8342296+05:30

2. **Insert data into your specific database tables**
   QUERY
   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) VALUES ('01005', 'R. PARESH', 'Cleaner', '911234567894', 8000);
   INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary) VALUES ('02006', 'T. MALLESH', 'Cleaner', '911234567895', 8000);
   INSERT INTO T3_EmployeeDetails (employee_id, name, designation, phone_number, salary) VALUES ('01007', 'O. 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', '919999999999');

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INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000002', 'Charan', 'Rao', 28, 'M', '919999999998');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000003', 'Farhan', 'Abdul', 37,'M', '919999999997');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000004', 'Kissan', 'Chary', 21, 'M', '919999999996');

INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000005', 'Laban', 'Seth', 18, 'M', '919999999995');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000006', 'Cheman', 'Kumar', 35, 'M', '919999999994');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000007', 'Eeshwar', 'Prasad', 53, 'M', '919999999993');
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) VALUES ('0000000009', 'Shivaji', 'Chatrapati', 61, 'M', '919999999991');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000010', 'Chakram', 'Kumar', 14, 'M', '919999999990');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('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 ('0000000014', 'Deepak', 'Chowdary', 19, 'M', '919999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Karthik', 'Sajjan', 20, 'M', '919999999189');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000016', 'Suvarna', 'Ram', 54, 'F', '919999999979');
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', '919999999964');
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,
```

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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_____';
INSERT INTO T3_DestinationDetails (city, hotel_name, hotel_description, address,
booking_id) SELECT 'Kulu Manali', 'Raj Palace', 'Good', 'Kulu Manali', booking_id FROM
T3_BookingDetails WHERE booking_id LIKE '01_____';
INSERT INTO T3_DestinationDetails (city, hotel_name, hotel_description, address,
booking_id) SELECT 'Burang', 'Gurugrantha Choultry', 'Good', 'Manasarovar', booking_id
FROM T3_BookingDetails WHERE booking_id LIKE '02_____';
INSERT INTO T3_Bus (bus_id, bus_type, dateAndTime_of_Arrival,
dateAndTime_of_Departure, booking_id) SELECT '8714', 'Sleeper', '2021-03-04T15:15:00',
'2021-03-06T15:15:00', booking_id FROM T3_BookingDetails WHERE booking_id LIKE
'01';
INSERT INTO T3_Bus (bus_id, bus_type, dateAndTime_of_Arrival,
dateAndTime_of_Departure,booking_id) SELECT '6938', 'Sleeper', '2021-03-04T05:30:00',
'2021-03- 08T15:15:00', booking_id FROM T3_BookingDetails WHERE booking_id LIKE
'02_____';
```

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

   QUERY

   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

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

QUERY

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');
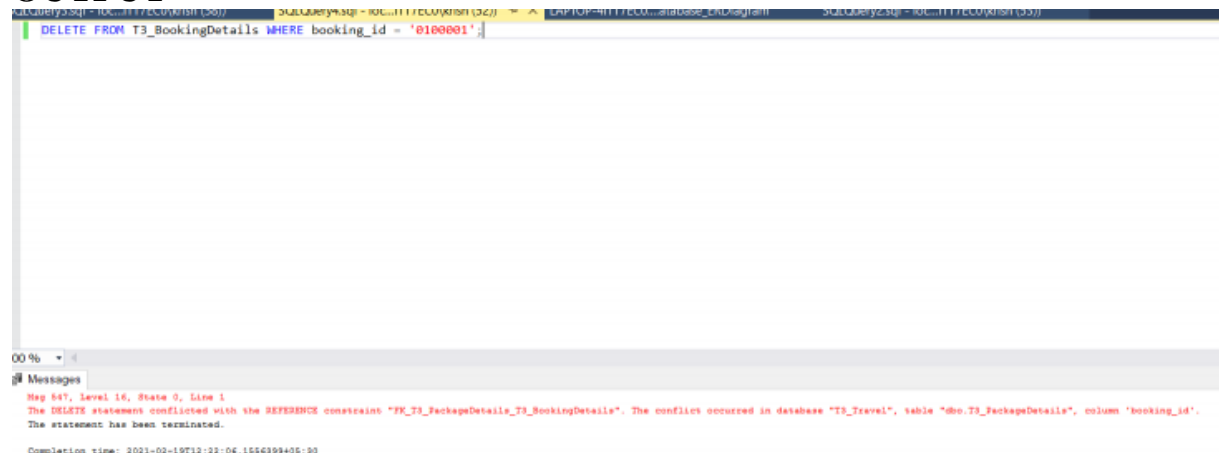
OUTPUT

5. 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 T3_BookingDetails WHERE booking_id = '0100001';

OUTPUT

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.

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

QUERY

UPDATE T3_CustomerDetails SET age = 34 WHERE customer_id = '0000000054';

OUTPUT

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.

7. Add a column which has default value.
QUERY

ALTER TABLE dbo.T3_CUSTOMER_DETAILS
ADD Middle_Name VARCHAR(50) DEFAULT 'NULL';
INSERT INTO dbo.T3_CUSTOMER_DETAILS (Customer_ID, First_Name,
Last_Name, Age, Gender, Phone_No)
VALUES(100, 'DEEPAK', 'CHOWFARY', 18, 'M', '7702385485')

OUTPUT

	Customer_ID	First_Name	Last_Name	Age	Gender	Phone_No	Address	Middle_Name
1	0000000001	Karusala	Deepak	18	M	7702385485	NULL	NULL

8. 5 Simple Select queries to retrieve data from your database.
QUERY

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

OUTPUT

9. 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 T3_Bus SET bus_type = '2 Seater' WHERE bus_id = '6938';

OUTPUT