Karthik Sajjan

19bcs049

1. Add, Modify and Delete Column using Alter Command OUERY

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**

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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 **OUERY**

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 Customer Details (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', '91999999999'); INSERT INTO T3 Customer Details (customer id, first name, last name, age, gender, phone) VALUES ('0000000003', 'Farhan', 'Abdul', 37,'M', '91999999997'); INSERT INTO T3 CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000004', 'Kissan', 'Chary', 21, 'M', '91999999996');

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INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender,
phone) VALUES ('0000000005', 'Laban', 'Seth', 18, 'M', '91999999995');
INSERT INTO T3 Customer Details (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 Customer Details (customer id, first name, last name, age, gender,
phone) VALUES ('0000000008', 'Raghavendra', 'Swamy', 42, 'M', '91999999992');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender,
phone) VALUES ('0000000009', 'Shivaji', 'Chatrapati', 61, 'M', '91999999991');
INSERT INTO T3 Customer Details (customer id, first name, last name, age, gender,
phone) VALUES ('0000000010', 'Chakram', 'Kumar', 14, 'M', '91999999999');
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', '91999999913'); INSERT
INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone)
VALUES ('0000000013', 'Somesh', 'Thakur', 33, 'M', '919999999914');
INSERT INTO T3 Customer Details (customer id, first name, last name, age, gender,
phone) VALUES ('0000000014', 'Deepak', 'Chowdary', 19, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender,
phone) VALUES ('0000000015', 'Karthik', 'Sajjan', 20, 'M', '919999999189');
INSERT INTO T3 Customer Details (customer id, first name, last name, age, gender,
phone) VALUES ('0000000016', 'Suvarna', 'Ram', 54, 'F', '919999999999');
INSERT INTO T3 Customer Details (customer id, first name, last name, age, gender,
phone) VALUES ('0000000017', 'Sunder', 'Ram', 54, 'M', '91999999923');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender,
phone) VALUES ('0000000018', 'Manaswini', 'Ksheeraja', 16, 'F', '919999999122');
INSERT INTO T3 Customer Details (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 Booking Details (customer id, booking id, payment amount,
payment_dateTime) VALUES ('0000000001', '0100001', 25000, '2021-02-19T09:37:00');
INSERT INTO T3 Booking Details (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 Booking Details (customer id, booking id, payment amount,
payment dateTime) VALUES ('0000000005', '0100005', 25000, '2021-02-19T09:34:00');
INSERT INTO T3 Booking Details (customer id, booking id, payment amount,
payment_dateTime) VALUES ('0000000006', '0100006', 25000, '2021-02-19T09:12:00');
INSERT INTO T3 Booking Details (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');
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INSERT INTO T3 Booking Details (customer id, booking id, payment amount,
payment_dateTime) VALUES ('0000000010', '0100010', 25000, '2021-02-19T11:12:00');
INSERT INTO T3 Booking Details (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 Booking Details (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 Booking Details (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 Booking Details (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 Package Details (package name, package description, cost,
starting_point, booking_id) SELECT 'Manasarovar', 'Have a nice glimpse of Nature!',
50000.00, 'Hyderabad', booking id FROM T3 Booking Details WHERE booking id LIKE
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 Booking Details 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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OPUTPUT

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INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000001', 'Chakram', 'Kumar', 14, 'M', '91999999999');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('000000001', 'Chakram', 'Kumar', 14, 'M', '919999999999');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('000000001', 'Chakram', 'Kumar', 14, 'M', '919999999991');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000012', 'Prabha', 'lingaraju', 41, 'M', '91999999913');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000012', 'Somesh', 'Thakur', 33, 'M', '91999999913');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Karthik', 'Sajjan', 20, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Karthik', 'Sajjan', 20, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kunthik', 'Sajjan', 20, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kamthik', 'Sajjan', 20, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kamthik', 'Sajjan', '20, 'M', '919999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kamthik', 'Sajjan', 'Ram', 'S4, 'M', '919999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kanthik', 'Sajjan', 'Ram', 'S4, 'M', '91999999915');
INSERT INTO T3_CustomerDetails (customer_id, first_name, last_name, age, gender, phone) VALUES ('0000000015', 'Kanthik', 'Sajjan', 'Ram', 'S4, 'M', '91999999
```

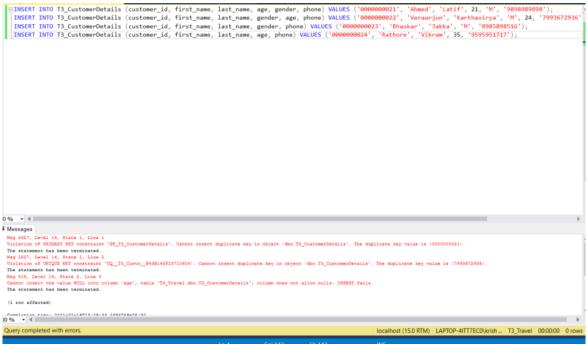
3. Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.

OUERY

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.

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. OUERY

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. OUERY

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

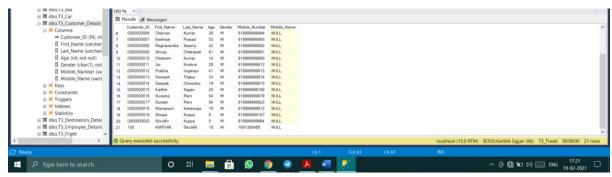
ALTER TABLE dbo.T3_CUSTOMER_DETAILS ADD Middle Name VARCHAR(50) DEFAULT 'NULL';

INSERT INTO dbo.T3_CUSTOMER_DETAILS (Customer_ID, First_Name,

Last_Name, Age, Gender, Phone_No)

VALUES(100, 'KARTHIK', 'SAJJAN', 18, 'M', '7901385485')

OUTPUT



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

QUERY

SELECT * FROM T3_CustomerDetails;

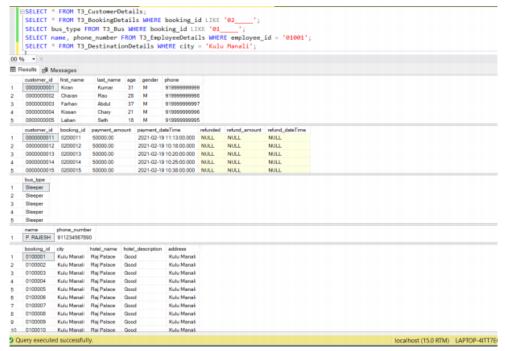
SELECT * FROM T3_BookingDetails WHERE booking_id LIKE '02_____';

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**

