LAB ASSIGNMENT 3 K.V.L.AMRUTHA 19BCS048

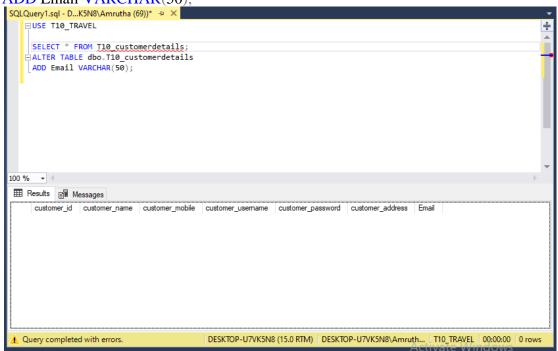
1. Add, Modify and Delete Column using Alter Command

USE T10_TRAVEL

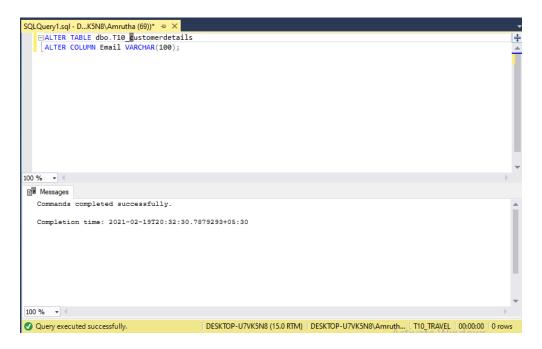
SELECT * **FROM** T10_customerdetails;

ALTER TABLE dbo.T10_customerdetails

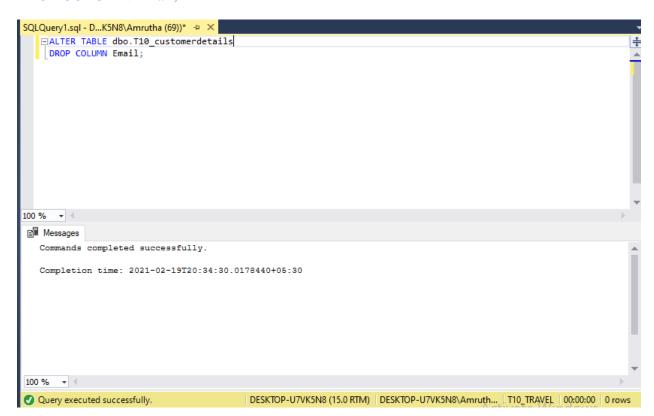
ADD Email VARCHAR(50);



ALTER TABLE dbo.T10_customerdetails ALTER COLUMN Email VARCHAR(100);



ALTER TABLE dbo.T10_customerdetails DROP COLUMN Email;



2. Insert 20 Employees Data into all the tables.

```
INSERT INTO dbo.T10 customerdetails (customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(100, 'Amrutha', 904517852, 'Amrutha100', '90451', 'Mumbai', 'amrutha@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer username, customer password, customer address, Email)
VALUES(101, 'Deepti', 8549617542, 'Deepti101', '85496', 'patna', 'deepti@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(102, 'Ranjolkar', 8675142960, 'Ranjolkar102', '86751', 'Delhi', 'ranjokar@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(103, 'Chaitra', 7548214545, 'Chaitra103', '75482', 'Vijayawada', 'chaitra@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(104, 'Ieesha', 9638527410, 'Ieesha104', '96385', 'Kurnool', 'ieesha@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer_username, customer_password, customer_address, Email)
VALUES(105, 'Robin', 9548525502, 'Robin105', '95485', 'Hyderabad', 'robin@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(106,'Roja',7542154150,'Roja106','75421','America','roja@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer username, customer password, customer address, Email)
VALUES(107,'Keerthi',9635285502,'Keerti107','96352','London','keerti@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(108, 'Deepu', 9658254110, 'Deepu108', '96582', 'Turkey', 'deepu@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer_username, customer_password, customer_address, Email)
VALUES(109, 'Vani', 9952400123, 'Vani109', '99240', 'Goa', 'vani@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer username, customer password, customer address, Email)
VALUES(110, 'Sree', 8446195232, 'Sree110', '84461', 'Kadapa', 'sree@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer username, customer password, customer address, Email)
VALUES(111, 'Shruti', 9774520899, 'Shruti111', '97745', 'Dharwad', 'shruti@gmail.com')
INSERT INTO dbo.T10 customerdetails(customer id, customer name, customer mobile,
customer_username, customer_password, customer_address, Email)
VALUES(112, 'Ruthik', 9445800012, 'Ruthik'112', '94458', 'Hubbali', 'ruthik'@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer_username, customer_password, customer_address, Email)
VALUES(113, 'Karthik', 9102486147, 'Karthik113', '91024', 'Belgum', 'karthik@gmail.com')
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile,
customer_username, customer_password, customer_address, Email)
VALUES(114, 'Frank', 9776211463, 'Frank114', '97762', 'Srinagar', 'frank@gmail.com')
```

INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile, customer_username, customer_password, customer_address, Email)

VALUES(115, 'Bob', 7447458100, 'Bob115', '74474', 'China', 'bob@gmail.com')

INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile, customer_username, customer_password, customer_address, Email)

VALUES(116, 'Rocky', 9330014485, 'Rocky116', '93300', 'Gujarat', 'rocky@gmail.com')

INSERT INTO dbo.T10_customerdetails

VALUES(117, 'Daniel', 7475825035, 'Daniel117', '74758', 'Mumbai', 'daniel@gmail.com')

INSERT INTO dbo.T10_customerdetails

VALUES(118, 'Olivia', 9658964122, 'Oliva118', '96589', 'Mumbai', 'olivia@gmail.com')

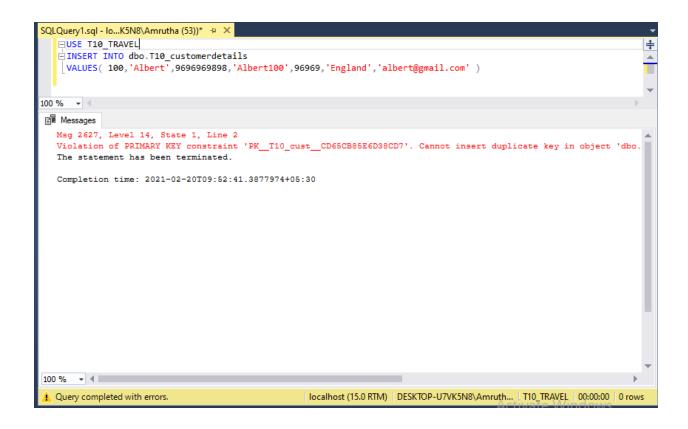
INSERT INTO dbo.T10 customerdetails

VALUES(119,'Mia',9001414121,'Mia119','90014','Mumbai','mia@gmail.com')

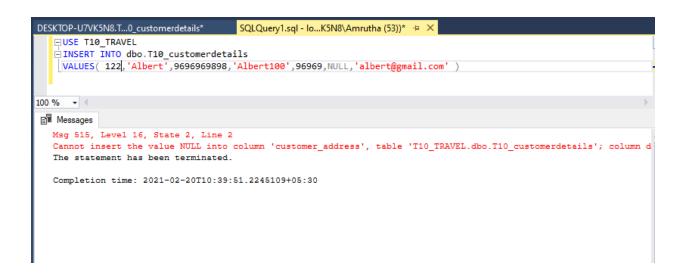
	customer_id	customer_name	customer_mobile	customer_usemame	customer_password	customer_address	Email
1	100	Amrutha	904517852	Amrutha 100	90451	Mumbai	amrutha@gmail.com
2	101	Deepti	8549617542	Deepti 101	85496	patna	deepti@gmail.com
3	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com
4	103	Chaitra	7548214545	Chaitra 103	75482	Vijayawada	chaitra@gmail.com
5	104	leesha	9638527410	leesha104	96385	Kumool	ieesha@gmail.com
6	105	Robin	9548525502	Robin 105	95485	Hyderabad	robin@gmail.com
7	106	Roja	7542154150	Roja 106	75421	America	roja@gmail.com
8	107	Keerthi	9635285502	Keerti 107	96352	London	keerti@gmail.com
9	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com
10	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com
11	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com
12	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com
13	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com
14	113	Karthik	9102486147	Karthik 113	91024	Belgum	karthik@gmail.com
15	114	Frank	9776211463	Frank 114	97762	Srinagar	frank@gmail.com
16	115	Bob	7447458100	Bob 115	74474	China	bob@gmail.com
17	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com
18	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com
19	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com
20	119	Mia	9001414121	Mia119	90014	Mumbai	mia@gmail.com

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

USE T10_TRAVEL
INSERT INTO dbo.T10_customerdetails
VALUES(100,'Albert',9696969898,'Albert100',96969,'England','albert@gmail.com')



USE T10_TRAVEL INSERT INTO dbo.T10_customerdetails VALUES(122,'Albert',9696969898,'Albert100',96969,NULL,'albert@gmail.com')



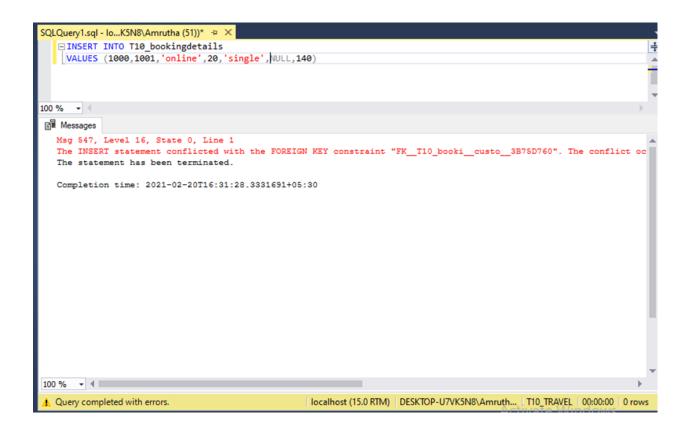
ALTER TABLE T10_customerdetails ADD def_Age VARCHAR(45) DEFAULT 30;

INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile, customer_username, customer_password, customer_address, Email, Age)

VALUES(121,'Amrutha',904517852,'Amrutha100','90451','Mumbai','amrutha@gmail.com',20)

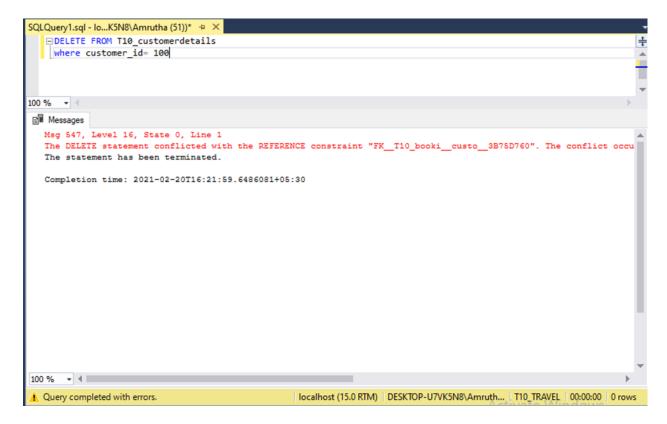
4. Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.

INSERT INTO T10_bookingdetails VALUES (1000,1001,'online',20,'single',NULL,140)



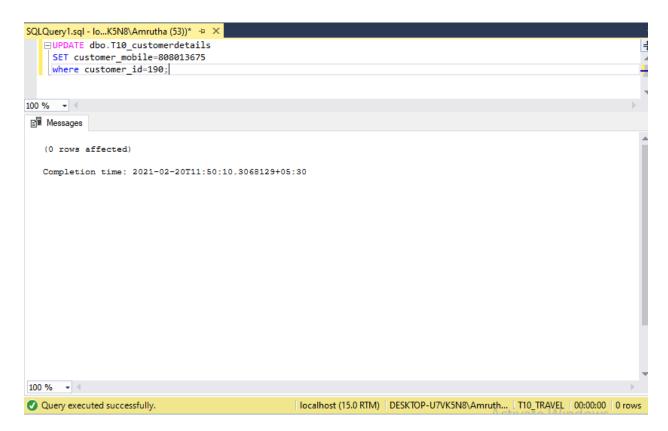
5. Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error

DELETE FROM T10_customerdetails where customer_id= 100



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

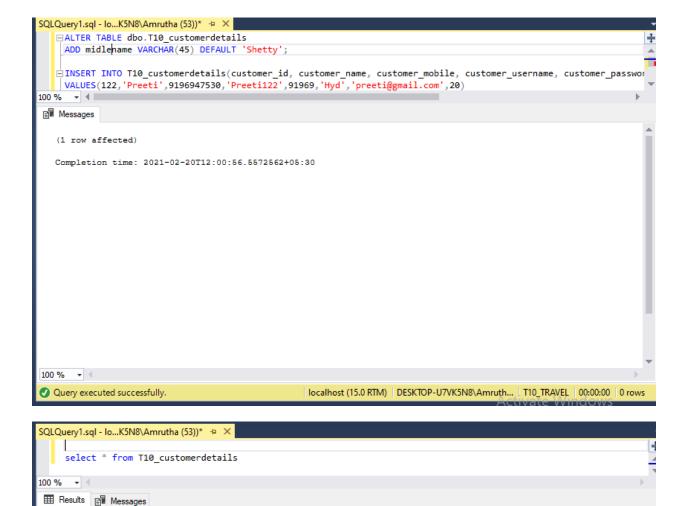
UPDATE dbo.T10_customerdetails SET customer_mobile=808013675 where customer_id=190;



7. Add a column which has default value.

```
ALTER TABLE dbo.T10_customerdetails
ADD midlename VARCHAR(45) DEFAULT 'Shetty';
ALTER TABLE dbo.T10_customerdetails
ADD lastname VARCHAR(45) DEFAULT 'Shetty';
```

INSERT INTO T10_customerdetails(customer_id, customer_name, customer_mobile, customer_username, customer_password, customer_address, Email, Age)
VALUES(122,'Preeti',9196947530,'Preeti122',91969,'Hyd','preeti@gmail.com',20)



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

Preeti122

9196947530

customer_name customer_mobile customer_usemame customer_password customer_address Email

91969

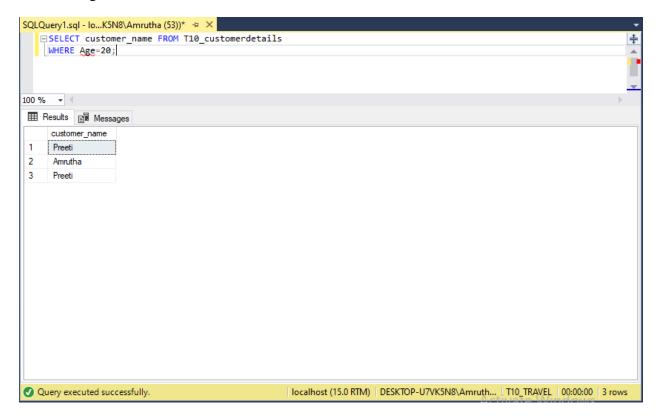
lastnam ^

Shetty

select * from T10_customerdetails

	Results 🗐 M	essages							
	customer_id	customer_name	customer_mobile	customer_usemame	customer_password	customer_address	Email	Age	lastnam ^
1	99	Preeti	9196947530	Preeti122	91969	Hyd	preeti@gmail.com	20	Shetty
2	100	Amrutha	904517852	Amrutha 100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
3	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
4	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
5	103	Chaitra	7548214545	Chaitra 103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL
6	104	leesha	9638527410	leesha104	96385	Kumool	ieesha@gmail.com	NULL	NULL
7	105	Robin	9548525502	Robin 105	95485	Hyderabad	robin@gmail.com	NULL	NULL
8	106	Roja	7542154150	Roja 106	75421	America	roja@gmail.com	NULL	NULL
9	107	Keerthi	9635285502	Keerti 107	96352	London	keerti@gmail.com	NULL	NULL
10	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL
11	109	Vani	9952400123	Vani 109	99240	Goa	vani@gmail.com	NULL	NULL
12	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL
13	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL
14	112	Ruthik	9445800012	Ruthik 112	94458	Hubbali	ruthik@gmail.com	NULL	NULL
15	113	Karthik	9102486147	Karthik 113	91024	Belgum	karthik@gmail.com	NULL	NULL
16	114	Frank	9776211463	Frank 114	97762	Srinagar	frank@gmail.com	NULL	NULL
17	115	Bob	7447458100	Bob 115	74474	China	bob@gmail.com	NULL	NULL
18	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL
19	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com	NULL	NULL
20	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com	NULL	NULL Y

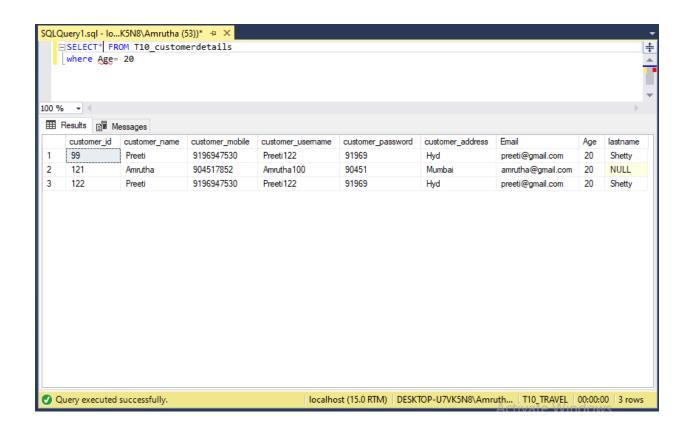
SELECT customer_name FROM T10_customerdetails WHERE Age=20;



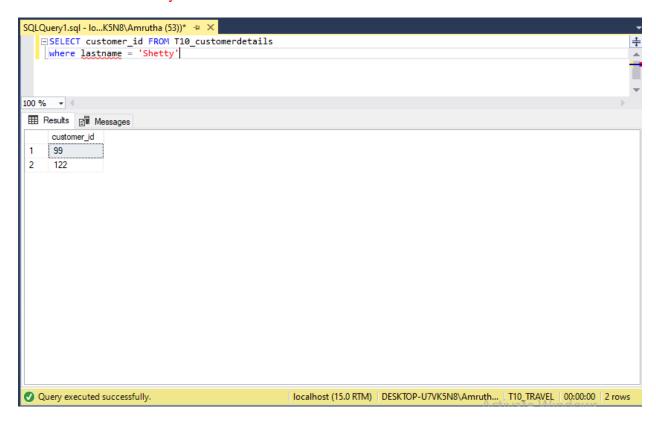
SELECT top 5 * FROM T10_customerdetails

%	, +								b.
		essages							
	customer_id	customer_name	customer mobile	customer_usemame	customer password	customer_address	Email	Age	lastnam
	99	Preeti	9196947530	Preeti122	91969	Hyd	preeti@gmail.com	20	Shetty
	100	Amrutha	904517852	Amrutha 100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
	103	Chaitra	7548214545	Chaitra 103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL

SELECT* FROM T10_customerdetails where Age= 20



SELECT customer_id FROM T10_customerdetails where lastname = 'Shetty'



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.

```
SET UPDATE dbo.T10_bookingdetails customer_id= 130 WHERE booking_id=10000;
```

