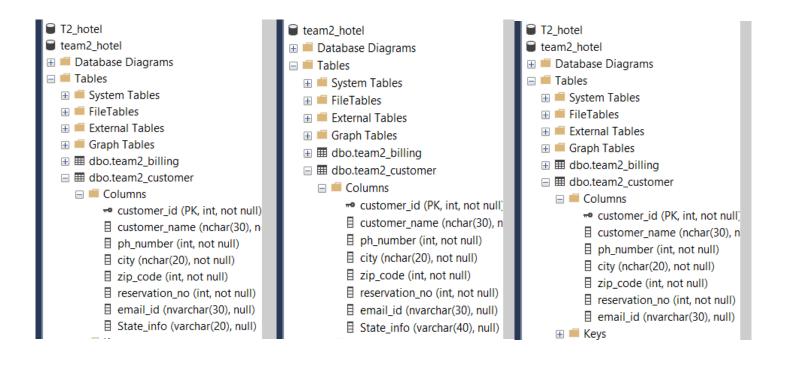
# DBMS\_LAB\_ASSIGNMENT\_3

Name: Param D. Mane Reg No: 19BCS121 Team No: 2 Database: Hotel Q1) Add, modify and delete column using alter command. Query: USE team2\_hotel; ALTER TABLE team2\_customer ADD State\_info varchar(20); ALTER TABLE team2\_customer ALTER COLUMN State\_info varchar(40); ALTER TABLE team2\_customer DROP COLUMN State\_info;



Q2) Insert 20 customer data into all the tables.

Query:

### Table Name: team2\_customer--

```
USE team2 hotel;
set identity insert team2 customer on;
INSERT INTO team2 customer (customer id,customer name,ph number,city,zip code,reservation no,email id)
VALUES
(1001, 'Ram', 9866622245, 'MUMBAI', 123, 10, 'Ram@gmail.com'), (1002, 'Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com')
 (1003, 'Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), (1004, 'Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com')
 '),(1005, 'Sam', 8878922240, 'MUMBAI', 126, 14, 'Sam@gmail.com'),
 (1006, 'Tom', 7666622245, 'PUNE', 234, 13, 'Tom@yahoo.com'), (1007, 'Ram', 9070662224, 'PUNE', 235, 15, 'Ram@yahoo.com'), (1008, 'Tom', 766662224, 'PUNE', 235, 15, 'Ram', 766662224, 'PUNE', 766662224, 'PUNE', 766662224, 'PUNE', 766662224, 'PUNE', 76666224, 'PUNE', 7666624, 'PUNE', 7666624, 'PUNE', 7666624, 'PUNE', 7666624, 'PUNE', 766664, 'PUNE', 766664, 'PUNE', 766664, 'PUNE', 766664, 'PUNE', 7666664, 'PUNE', 766664, 'PUNE', 76666
Arjun',7315622245, 'Banglore',345,15,NULL),
(1009, 'Param', 8975622245, 'Banglore', 346, 16, 'Param@gmail.com'), (1010, 'Rohit', 7778822245, 'PUNE', 237, 16, 'Rohit S@gmail
 .com'),(1011, 'Ash',9866600045, 'MUMBAI',129,17,NULL),
(1012, 'Adlin', 9144622245, 'HUBLI', 452, 18, 'Adl 12@gmail.com'), (1013, 'Steve', 9112020245, 'HUBLI', 452, 19, NULL), (1014, 'Ra
ndheer',7066650245,'DHARWAD',623,20,'randheer@yahoo.com'),
(1015, 'Neha', 7035622245, 'MUMBAI', 130, 12, 'neha@gmail.com'), (1016, 'Virat', 9866612345, 'BANGLORE', 349, 21, NULL), (1017, 'R
oy',8336022245,'DHARWAD',603,20,NULL),
(1018, 'Krishna', NULL, 'MUMBAI', 127, 22, 'Krish@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 245, 23, 'AK@gmail.com'), (10
20, 'James', 9210620645, 'DHARWAD', 645, 24, 'James@outlook.com');
SELECT TOP 20 *FROM team2 customer;
DELETE FROM team2 customer;
set identity insert team2 customer off;
INSERT INTO dbo.team2 customer
VALUES ('Ram', 9866622245, 'MUMBAI', 123, 10, 'Ram@gmail.com'), ('Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com'),
```

```
('Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), ('Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com'), ('Sam',
8878922240, 'MUMBAI', 126, 14, 'Sam@gmail.com'),
('Tom',7666622245,'PUNE',234,13,'Tom@yahoo.com'),('Ram',9070662224,'PUNE',235,15,'Ram@yahoo.com'),('Arjun',73156222
45, 'Banglore', 345, 15, NULL),
('Param', 8975622245, 'Banglore', 346, 16, 'Param@gmail.com'),('Rohit', 7778822245, 'PUNE', 237, 16, 'Rohit S@gmail.com'),('A
sh',9866600045,'MUMBAI',129,17,NULL),
('Adlin',9144622245,'HUBLI',452,18,'Adl 12@gmail.com'),('Steve',9112020245,'HUBLI',452,19,NULL),('Randheer',7066650
245, 'DHARWAD', 623, 20, 'randheer@yahoo.com'),
('Neha',7035622245,'MUMBAI',130,12,'neha@gmail.com'),('Virat',9866612345,'BANGLORE',349,21,NULL),('Roy',8336022245,
'DHARWAD', 603, 20, NULL),
('Krishna', NULL, 'MUMBAI', 127, 22, 'Krish@gmail.com'), ('Aakash', 9866622000, 'PUNE', 245, 23, 'AK@gmail.com'), ('James', 9210
620645, 'DHARWAD', 645, 24, 'James@outlook.com');
SELECT TOP 20 *FROM team2 customer;
DELETE FROM team2 customer;
set identity_insert team2_customer on;
INSERT INTO team2 customer (customer id,customer name,ph number,city,zip code,reservation no,email id)
(Select customer id, customer name, ph number, city, zip code, reservation no, email id from T2 DB HOTEL.dbo.T2 customer
where city='MUMBAI');
SELECT TOP 20 *FROM team2 customer;
DELETE FROM team2_customer;
Table Name: team2 billing--
set identity insert team2 billing on;
INSERT INTO team2 billing(customer_id, billing_number, room_charge, payment_date, credit_card)
VALUES
(1001,40010,10000,'20210219','RS15438'),(1002,40011,15000,'20210219','RS15401'),(1003,40012,12000,'20210218','RA145
87'), (1002, 40013, 10500, '20210217', 'P015430'),
(1004, 40014, 15000, '20210215', 'MS10430'), (1005, 40015, 15000, '20210217', 'RT98740'), (1004, 40016, 10000, '20210216', 'LK180
43'),
(1006,40017,12000,'20210210','YU01243'),(1007,40018,5000,'20210214','QW16043'),(1008,40019,15000,'20210209','ZX1715
3'),
```

```
(1009, 40020, 20000, '20210219', 'TH16443'), (1010, 40021, 10000, '20210211', 'DC10203'), (1011, 40022, 12000, '20210208', 'CV157
00'),
(1012,40023,30000,'20210216','NH10003'),(1010,40024,4000,'20210129','MN19873'),(1013,40025,15000,'20210215','BN4560
0'),
(1014,40026,10000,'20210113','JK12430'),(1015,40027,12000,'20210204','SE04143'),(1016,40028,30000,'20210211','ML190
21'),
(1017,40029,20000,'20210214','MP16343');
SELECT TOP 20 *FROM team2 billing;
DELETE FROM team2 billing;
Table Name: team2 rooms --
set identity insert team2 rooms on;
INSERT INTO team2 rooms (room number,room type,room location,number of beds,customer id)
VALUES
(200, 'AC', 'floor3', 2, 1001), (201, 'AC', 'floor3', 2, 1002), (203, 'NonAC', 'floor2', 2, 1003), (204, 'AC', 'floor3', 3, 1004), (205, 'AC', 'floor3', 2, 1001), (201, 'AC', 'floor3', 2, 10
,'AC','floor1',1,1005),
(206, 'AC', 'floor3', 3, 1006), (207, 'AC', 'floor2', 3, 1007), (208, 'NonAC', 'floor1', 2, 1008), (209, 'AC', 'floor3', 4, 1009), (210
, 'NonAC', 'floor3', 4, 1010),
(211, 'AC', 'floor1', 2, 1011), (212, 'AC', 'floor2', 1, 1012), (213, 'AC', 'floor1', 4, 1013), (214, 'AC', 'floor4', 2, 1014), (215, 'A
C','floor4',3,1015),(216,'NonAC','floor4',3,1016),
(217, 'AC', 'floor5', 4, 1017), (218, 'NonAC', 'floor3', 1, 1018), (219, 'AC', 'floor5', 4, 1019), (220, 'AC', 'floor3', 2, 1020);
SELECT TOP 20 *FROM team2_rooms;
DELETE FROM team2 rooms;
```

Entity: team2\_customer --

Method No: 1

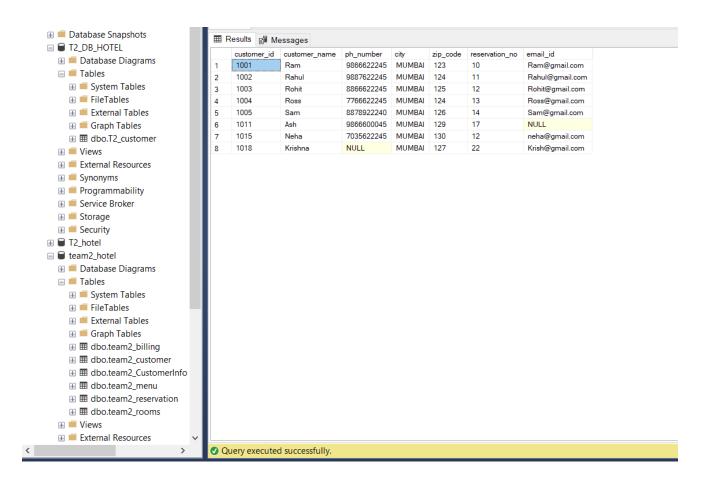
	customer_id	customer_name	ph_number	city	zip_code	reservation_no	email_id
1	1001	Ram	9866622245	MUMBAI	123	10	Ram@gmail.com
2	1002	Rahul	9887622245	MUMBAI	124	11	Rahul@gmail.com
3	1003	Rohit	8866622245	MUMBAI	125	12	Rohit@gmail.com
4	1004	Ross	7766622245	MUMBAI	124	13	Ross@gmail.com
5	1005	Sam	8878922240	MUMBAI	126	14	Sam@gmail.com
6	1006	Tom	7666622245	PUNE	234	13	Tom@yahoo.com
7	1007	Ram	9070662224	PUNE	235	15	Ram@yahoo.com
8	1008	Arjun	7315622245	Banglore	345	15	NULL
9	1009	Param	8975622245	Banglore	346	16	Param@gmail.com
10	1010	Rohit	7778822245	PUNE	237	16	Rohit_S@gmail.com
11	1011	Ash	9866600045	MUMBAI	129	17	NULL
12	1012	Adlin	9144622245	HUBLI	452	18	Adl_12@gmail.com
13	1013	Steve	9112020245	HUBLI	452	19	NULL
14	1014	Randheer	7066650245	DHAR	623	20	randheer@yahoo.c
15	1015	Neha	7035622245	MUMBAI	130	12	neha@gmail.com
16	1016	Virat	9866612345	BANGL	349	21	NULL
17	1017	Roy	8336022245	DHAR	603	20	NULL
18	1018	Krishna	NULL	MUMBAI	127	22	Krish@gmail.com
19	1019	Aakash	9866622000	PUNE	245	23	AK@gmail.com
20	1020	James	9210620645	DHAR	645	24	James@outlook.co

# Method No: 2

	customer_id	customer_name	ph_number	city	zip_code	reservation_no	email_id
1	1081	Ram	9866622245	MUMBAI	123	10	Ram@gmail.com
2	1082	Rahul	9887622245	MUMBAI	124	11	Rahul@gmail.com
3	1083	Rohit	8866622245	MUMBAI	125	12	Rohit@gmail.com
4	1084	Ross	7766622245	MUMBAI	124	13	Ross@gmail.com
5	1085	Sam	8878922240	MUMBAI	126	14	Sam@gmail.com
6	1086	Tom	7666622245	PUNE	234	13	Tom@yahoo.com
7	1087	Ram	9070662224	PUNE	235	15	Ram@yahoo.com
8	1088	Arjun	7315622245	Banglore	345	15	NULL
9	1089	Param	8975622245	Banglore	346	16	Param@gmail.com
10	1090	Rohit	7778822245	PUNE	237	16	Rohit_S@gmail.com
11	1091	Ash	9866600045	MUMBAI	129	17	NULL
12	1092	Adlin	9144622245	HUBLI	452	18	Adl_12@gmail.com
13	1093	Steve	9112020245	HUBLI	452	19	NULL
14	1094	Randheer	7066650245	DHARWAD	623	20	randheer@yahoo.com
15	1095	Neha	7035622245	MUMBAI	130	12	neha@gmail.com
16	1096	Virat	9866612345	BANGLORE	349	21	NULL
17	1097	Roy	8336022245	DHARWAD	603	20	NULL
18	1098	Krishna	NULL	MUMBAI	127	22	Krish@gmail.com
19	1099	Aakash	9866622000	PUNE	245	23	AK@gmail.com
20	1100	James	9210620645	DHARWAD	645	24	James@outlook.com

Query executed successfully.

#### Method No: 3



Entity: team2\_billing --

	customer_id	billing_number	room_charge	payment_date	credit_card
1	1001	40010	10000	2021-02-19	RS15438
2	1002	40011	15000	2021-02-19	RS15401
3	1003	40012	12000	2021-02-18	RA14587
4	1002	40013	10500	2021-02-17	PQ15430
5	1004	40014	15000	2021-02-15	MS10430
6	1005	40015	15000	2021-02-17	RT98740
7	1004	40016	10000	2021-02-16	LK18043
8	1006	40017	12000	2021-02-10	YU01243
9	1007	40018	5000	2021-02-14	QW16043
10	1008	40019	15000	2021-02-09	ZX17153
11	1009	40020	20000	2021-02-19	TH16443
12	1010	40021	10000	2021-02-11	DC10203
13	1011	40022	12000	2021-02-08	CV15700
14	1012	40023	30000	2021-02-16	NH10003
15	1010	40024	4000	2021-01-29	MN19873
16	1013	40025	15000	2021-02-15	BN45600
17	1014	40026	10000	2021-01-13	JK12430
18	1015	40027	12000	2021-02-04	SE04143
19	1016	40028	30000	2021-02-11	ML19021
20	1017	40029	20000	2021-02-14	MP16343

Entity: team2\_rooms -

roo	m_number	room_type	room_location	number_of_beds	customer_id
1 20	0	AC	floor3	2	1001
2 20	1	AC	floor3	2	1002
3 20	3	NonAC	floor2	2	1003
4 20	4	AC	floor3	3	1004
5 20	5	AC	floor1	1	1005
6 20	6	AC	floor3	3	1006
7 20	7	AC	floor2	3	1007
8 20	В	NonAC	floor1	2	1008
9 20	9	AC	floor3	4	1009
10 21	0	NonAC	floor3	4	1010
11 21	1	AC	floor1	2	1011
12 21	2	AC	floor2	1	1012
13 21	3	AC	floor1	4	1013
14 21	4	AC	floor4	2	1014
15 21	5	AC	floor4	3	1015
16 21	6	NonAC	floor4	3	1016
17 21	7	AC	floor5	4	1017
18 21	8	NonAC	floor3	1	1018
19 21	9	AC	floor5	4	1019
20 22	0	AC	floor3	2	1020

Q3) Show violation of PK, Unique and Not null key constraints through insertion.

### Query with Output:

• Violation of PK constraint:

```
∃USE team2 hotel;
     set identity_insert team2_customer on;
     INSERT INTO team2 customer (customer id,customer name,ph number,city,zip code,reservation no,email id)
     VALUES (1002, 'Ram', 9866622245, 'MUMBAI', 123, 10, 'Ram@gmail.com'), (1002, 'Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com'),
     (1003, 'Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), (1004, 'Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com'), (1005, 'Sam', 8878922
     (1006, 'Tom', 7666622245, 'PUNE', 234, 13, 'Tom@yahoo.com'), (1007, 'Ram', 9070662224, 'PUNE', 235, 15, 'Ram@yahoo.com'), (1008, 'Arjun', 7315622245, 'Banı
     (1009, 'Param', 8975622245, 'Banglore', 346, 16, 'Param@gmail.com'), (1010, 'Rohit', 7778822245, 'PUNE', 237, 16, 'Rohit_S@gmail.com'), (1011, 'Ash', 986
     (1012, 'Adlin', 9144622245, 'HUBLI', 452, 18, 'Adl 12@gmail.com'), (1013, 'Steve', 9112020245, 'HUBLI', 452, 19, NULL), (1014, 'Randheer', 7066650245, 'DH.
     (1015, 'Neha', 7035622245, 'MUMBAI', 130, 12, 'neha@gmail.com'), (1016, 'Virat', 9866612345, 'BANGLORE', 349, 21, NULL), (1017, 'Roy', 8336022245, 'DHARWAI
     (1018, 'Krishna', NULL, 'MUMBAI', 127, 22, 'Krish@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 245, 23, 'AK@gmail.com'), (1020, 'James', 9210620645,
     SELECT TOP 20 *FROM team2 customer;
     DELETE FROM team2_customer;
100 % ▼ ◀ ■

    ■ Results    ■ Messages

  Msg 2627, Level 14, State 1, Line 4
   Violation of PRIMARY KEY constraint 'PK_team2_cu_CD65CB855852444E'. Cannot insert duplicate key in object 'dbo.team2_customer'. The duplicate key value is (1002).
   The statement has been terminated.
   (0 rows affected)
   Completion time: 2021-02-19T11:02:13.7294629+05:30
```

• Violation of Unique Key constraint:

```
⊟USE team2_hotel;
           set identity_insert team2_customer on;
        ☐INSERT INTO team2_customer (customer_id,customer_name,ph_number,city,zip_code,reservation_no,email_id)
           VALUES (1001, 'Ram', 9866622245, 'MUMBAI', 123, 10, 'Ram@gmail.com'), (1002, 'Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com'),
           (1003, 'Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), (1004, 'Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com'), (1005, 'Sam', 8878922240, 'MUMBAI', 124, 13, 'Ross@gmail.com'), (1005, 'Ross@gmail.com'), (100
           (1006, 'Tom', 7666622245, 'PUNE', 234, 13, 'Tom@yahoo.com'), (1007, 'Ram', 9070662224, 'PUNE', 235, 15, 'Ram@yahoo.com'), (1008, 'Arjun', 7315622245, 'Banglore', 34
           (1009, 'Param', 8975622245, 'Banglore', 346, 16, 'Param@gmail.com'), (1010, 'Rohit', 7778822245, 'PUNE', 237, 16, 'Rohit_S@gmail.com'), (1011, 'Ash', 9866600045, 'I
           (1012, 'Adlin', 9144622245, 'HUBLI', 452, 18, 'Adl 12@gmail.com'), (1013, 'Steve', 9112020245, 'HUBLI', 452, 19, NULL), (1014, 'Randheer', 7066650245, 'DHARWAD', 62'
           (1015, 'Neha', 7035622245, 'MUMBAI', 130, 12, 'neha@gmail.com'), (1016, 'Virat', 9866612345, 'BANGLORE', 349, 21, NULL), (1017, 'Roy', 8336022245, 'DHARWAD', 603, 20
           (1018, 'Krishna', NULL, 'MUMBAI', 127, 22, 'Krish@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 245, 23, 'AK@gmail.com'), (1020, 'James', 9210620645, 'DHARWAD'
           SELECT TOP 20 *FROM team2 customer;
           DELETE FROM team2_customer;
       ⊟ALTER TABLE team2_customer
           ADD UNIQUE(reservation no);
100 % ▼ ◀

    ■ Results    ■ Messages

      Msg 2627, Level 14, State 1, Line 4
      Violation of UNIQUE KEY constraint 'UQ_team2_cu_3138648B5E0F689B'. Cannot insert duplicate key in object 'dbo.team2_customer'. The duplicate key value is (13).
      The statement has been terminated.
      (0 rows affected)
      (0 rows affected)
      Completion time: 2021-02-19T11:20:16.1905588+05:30
```

• Violation of NOT NULL constraint:

```
■USE team2_hotel;
     set identity_insert team2_customer on;
    ☐INSERT INTO team2_customer (customer_id,customer_name,ph_number,city,zip_code,reservation_no,email_id)
     VALUES (1001, 'Ram', 9866622245, 'MUMBAI', NULL, 10, 'Ram@gmail.com'), (1002, 'Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com'),
     (1003, 'Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), (1004, 'Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com'), (1005, 'Sam', 887892224
      (1006, 'Tom', 7666622245, 'PUNE', 234, 15, 'Tom@yahoo.com'), (1007, 'Ram', 9070662224, 'PUNE', 235, 16, 'Ram@yahoo.com'), (1008, 'Arjun', 7315622245, 'Bangl
      (1009, 'Param', 8975622245, 'Banglore', 346,18, 'Param@gmail.com'), (1010, 'Rohit', 7778822245, 'PUNE', 237,19, 'Rohit', S@gmail.com'), (1011, 'Ash', 98666
      (1012, 'Adlin', 9144622245, 'HUBLI', 452, 21, 'Adl_12@gmail.com'), (1013, 'Steve', 9112020245, 'HUBLI', 452, 22, NULL), (1014, 'Randheer', 7066650245, 'DHAR
      (1015, 'Neha', 7035622245, 'MUMBAI', 130, 24, 'neha@gmail.com'), (1016, 'Virat', 9866612345, 'BANGLORE', 349, 25, NULL), (1017, 'Roy', 8336022245, 'DHARWAD'
      (1018, 'Krishna', NULL, 'MUMBAI', 127, 27, 'Krish@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 245, 28, 'AK@gmail.com'), (1020, 'James', 9210620645, 'D
     SELECT TOP 20 *FROM team2_customer;
     DELETE FROM team2_customer;
100 % ▼ ◀ ■

    ■ Results    ■ Messages

   Msg 515, Level 16, State 2, Line 4
   Cannot insert the value NULL into column 'zip_code', table 'team2_hotel.dbo.team2_customer'; column does not allow nulls. INSERT fails.
   The statement has been terminated.
   (0 rows affected)
   Completion time: 2021-02-19T12:16:25.3066261+05:30
```

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

Query:

```
USE team2 hotel;
set identity insert team2 customer off;
INSERT INTO team2_customer (customer_id,customer_name,ph_number,city,zip_code,reservation_no,email_id)
 VALUES
 (1001, 'Ram', 9866622245, 'MUMBAI', 123, 10, 'Ram@gmail.com'), (1002, 'Rahul', 9887622245, 'MUMBAI', 124, 11, 'Rahul@gmail.com')
  (1003, 'Rohit', 8866622245, 'MUMBAI', 125, 12, 'Rohit@gmail.com'), (1004, 'Ross', 7766622245, 'MUMBAI', 124, 13, 'Ross@gmail.com')
  '),(1005, 'Sam',8878922240, 'MUMBAI',126,14, 'Sam@gmail.com'),
 (1006, 'Tom', 7666622245, 'PUNE', 234, 15, 'Tom@yahoo.com'), (1007, 'Ram', 9070662224, 'PUNE', 235, 16, 'Ram@yahoo.com'), (1008, 'Tom', 7666622245, 'PUNE', 234, 15, 'Tom@yahoo.com'), (1008, 'Tom', 7666622245, 'PUNE', 235, 16, 'Ram@yahoo.com'), (1008, 'Tom', 7666622245, 'PUNE', 766662245, 'PUNE', 7666624, 'PUNE', 7666624, 'PUNE', 7666624, 'PUNE', 7666624
Arjun',7315622245, 'Banglore',345,17,NULL),
  (1009, 'Param', 8975622245, 'Banglore', 346, 18, 'Param@gmail.com'), (1010, 'Rohit', 7778822245, 'PUNE', 237, 19, 'Rohit S@gmail
  .com'),(1011, 'Ash',9866600045, 'MUMBAI',129,20,NULL),
 (1012, 'Adlin', 9144622245, 'HUBLI', 452, 21, 'Adl 12@gmail.com'), (1013, 'Steve', 9112020245, 'HUBLI', 452, 22, NULL), (1014, 'Ra
ndheer',7066650245,'DHARWAD',623,23,'randheer@yahoo.com'),
 (1015, 'Neha', 7035622245, 'MUMBAI', 130, 24, 'neha@gmail.com'), (1016, 'Virat', 9866612345, 'BANGLORE', 349, 25, NULL), (1017, 'R
oy',8336022245,'DHARWAD',603,26,NULL),
 (1018, 'Krishna', NULL, 'MUMBAI', 127, 27, 'Krish@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 245, 28, 'AK@gmail.com'), (1019, 'Aakash', 9866622000, 'PUNE', 986668200, 'PUNE', 986668200, 'PUNE', 9866682000, 'PUNE', 986668200, 'PUNE', 98666820, 'PUNE', 98666820,
20, 'James', 9210620645, 'DHARWAD', 645, 29, 'James@outlook.com');
SELECT TOP 20 *FROM team2 customer;
DELETE FROM team2 customer;
 set identity insert team2 rooms on;
INSERT INTO team2_rooms (room_number,room_type,room_location,number_of_beds,customer id)
VALUES
 (200, 'AC', 'floor3', 2, 1001), (201, 'AC', 'floor3', 2, 1002), (203, 'NonAC', 'floor2', 2, 1003), (204, 'AC', 'floor3', 3, 1004), (205, 'AC', 'floor3', 2, 1001), (201, 'floor3', 2, 1001),
,'AC','floor1',1,1005),
```

```
(206,'AC','floor3',3,1006),(207,'AC','floor2',3,1007),(208,'NonAC','floor1',2,1008),(209,'AC','floor3',4,1009),(210,'NonAC','floor3',4,1010),
(211,'AC','floor1',2,1011),(212,'AC','floor2',1,1012),(213,'AC','floor1',4,1013),(214,'AC','floor4',2,1014),(215,'A
C','floor4',3,1015),(216,'NonAC','floor4',3,1016),
(217,'AC','floor5',4,1017),(218,'NonAC','floor3',1,1018),(219,'AC','floor5',4,1019),(220,'AC','floor3',2,1020);
SELECT TOP 20 *FROM team2_rooms;

DELETE FROM team2_rooms;

Trying to Insert into dependent table first —

set identity_insert team2_rooms on;
INSERT INTO team2_rooms (room_number,room_type,room_location,number_of_beds,customer_id)
VALUES(221,'AC','floor4',3,1021);

/*Added FK*/
ALTER TABLE team2_rooms
ADD FOREIGN KEY (customer_id) REFERENCES team2_customer(customer_id);
```



Q5) Show violation of FK constraint when you try to delete from a base table. Explain why deletion gives an error.

Query:

```
USE team2_hotel

SELECT max(customer_id) from team2_customer; /*PK and max id is 1020*/

SELECT max(customer_id) from team2_rooms; /*FK and max id is 1020*/

/*Delete Statement*/
DELETE FROM team2_customer
WHERE customer_id=1020

/* First thing the delete statement is successful when it uses a single table that does not have a relationship to any other table. But here both the tables are related with each other.
Therefore, we can see deletion gives an error because the delete statement conflicted with the reference constraint*/
```



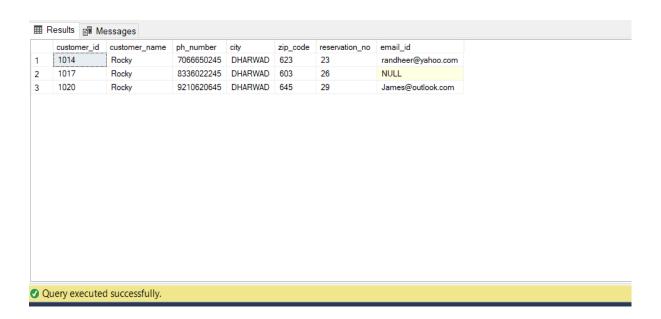
Q6) Try to update a non-existing entity data and check for error.

### Query:

```
USE team2_hotel;

UPDATE team2_customer
SET customer_name = 'Rocky'
WHERE city='DHARWAD'
SELECT *FROM team2_customer where city='DHARWAD';

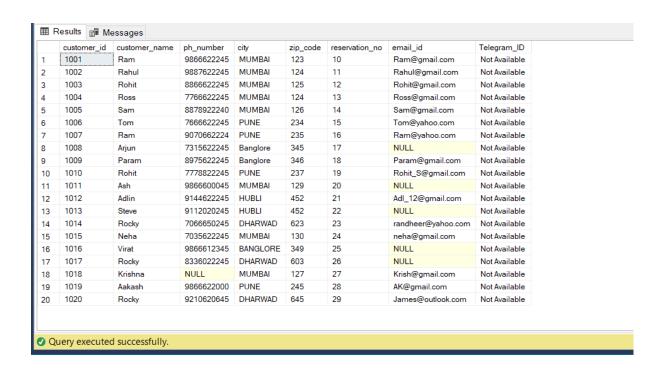
/* Not any error I got when I have updated customer_name corresponding to city 'DHARWAD'. Query executed successfully.*/
```



Q7) Add a column which has default value.

```
Query:
```

```
USE team2_hotel;
ALTER TABLE team2_customer
ADD Telegram_ID varchar(30)
DEFAULT'Not Available' WITH VALUES
SELECT *FROM team2_customer;
Output:
```



Q8) 5 Simple select queries to retrieve data from your database.

Query:

```
USE team2_hotel;

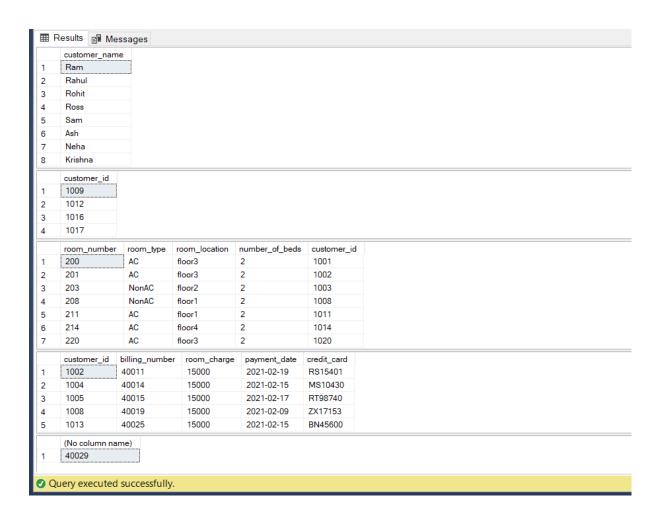
SELECT customer_name from team2_customer
where city='MUMBAI';

SELECT customer_id from team2_billing
where room_charge>15000;

SELECT *from team2_rooms
where number_of_beds=2;

SELECT *from team2_billing where room_charge=15000;

SELECT max(billing_number) from team2_billing;
```



Q9) Show how FK 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:

```
USE team2_hotel;
UPDATE team2_rooms SET room_type='NonAC' where number_of_beds=1;
SELECT room_type from team2_rooms where number_of_beds=1;
/* 3 rows were affected */
```

