

DBMS LAB ASSIGNMENT-3

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1. Add, Modify and Delete Column using Alter Command

QUERY:

```
USE T10_TRAVEL
```

```
SELECT *FROM T10_bookingdetails
```

```
INSERT INTO T10_bookingdetails VALUES('12385','051','SINGLE','19','VACATION',  
'NULL')
```

```
ALTER TABLE T10_bookingdetails
```

```
ADD booking_status VARCHAR(200) /*add column*/
```

```
ALTER TABLE T10_bookingdetails
```

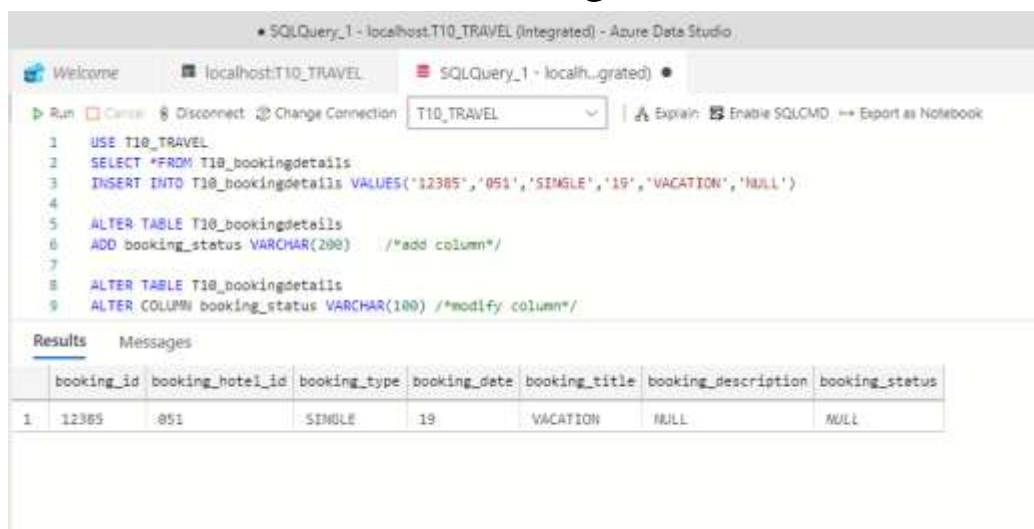
```
ALTER COLUMN booking_status VARCHAR(100) /*modify column*/
```

```
ALTER TABLE T10_bookingdetails
```

```
DROP COLUMN booking_status; /*delete column*/
```

OUTPUT:

Added new column booking_status



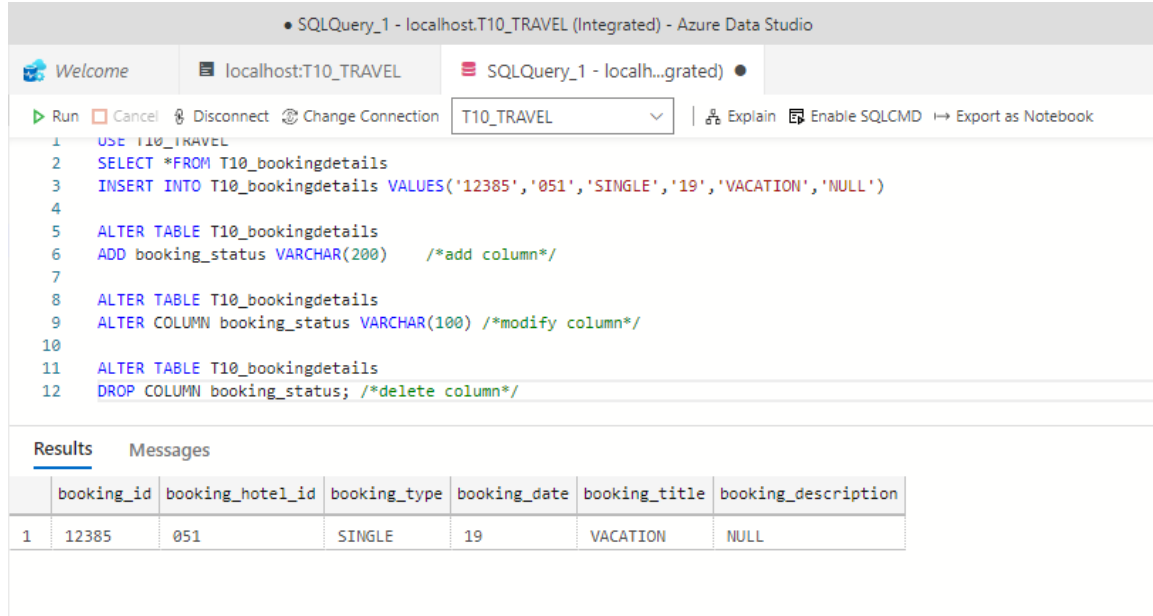
The screenshot shows the Azure Data Studio interface. The top bar indicates the current query is 'SQLQuery_1 - localhost:T10_TRAVEL (Integrated) - Azure Data Studio'. The main editor displays the following SQL script:

```
1  USE T10_TRAVEL
2  SELECT *FROM T10_bookingdetails
3  INSERT INTO T10_bookingdetails VALUES('12385','051','SINGLE','19','VACATION','NULL')
4
5  ALTER TABLE T10_bookingdetails
6  ADD booking_status VARCHAR(200) /*add column*/
7
8  ALTER TABLE T10_bookingdetails
9  ALTER COLUMN booking_status VARCHAR(100) /*modify column*/
```

Below the editor, the 'Results' tab is active, showing a table with 7 columns: booking_id, booking_hotel_id, booking_type, booking_date, booking_title, booking_description, and booking_status. The table contains one row of data:

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	booking_status
1	12385	051	SINGLE	19	VACATION	NULL	NULL

Deleted column booking_status



The screenshot shows the Azure Data Studio interface with a SQL query window titled "SQLQuery_1 - localhost:T10_TRAVEL (Integrated) - Azure Data Studio". The query window contains the following SQL code:

```
1 USE T10_TRAVEL
2 SELECT *FROM T10_bookingdetails
3 INSERT INTO T10_bookingdetails VALUES('12385','051','SINGLE','19','VACATION','NULL')
4
5 ALTER TABLE T10_bookingdetails
6 ADD booking_status VARCHAR(200) /*add column*/
7
8 ALTER TABLE T10_bookingdetails
9 ALTER COLUMN booking_status VARCHAR(100) /*modify column*/
10
11 ALTER TABLE T10_bookingdetails
12 DROP COLUMN booking_status; /*delete column*/
```

Below the query window, the "Results" tab is active, displaying a table with the following data:

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	12385	051	SINGLE	19	VACATION	NULL

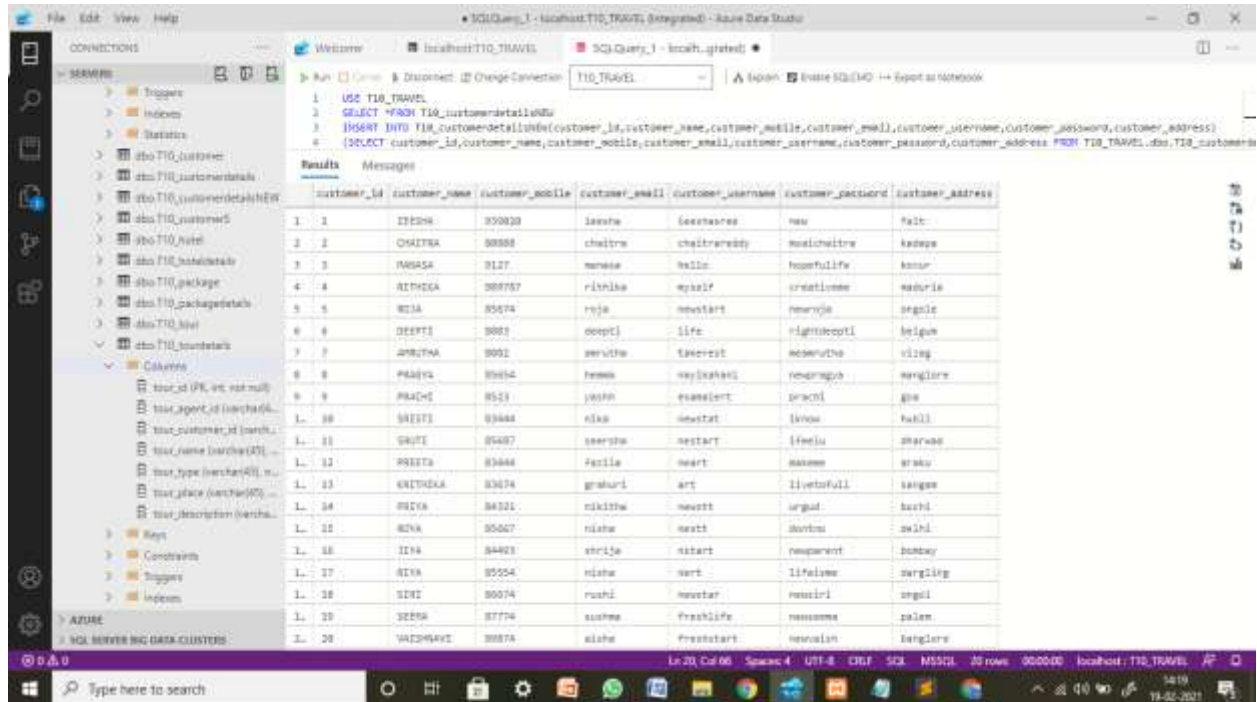
2.Insert 20 booking_details using 3 methods

QUERY:

```
USE T10_TRAVEL
SELECT *FROM T10_customerdetailsNEW
INSERT INTO T10_customerdetailsNEW(customer_id,customer_name,customer_mobile,
customer_email,customer_username,customer_password,customer_address)
(SELECT customer_id,customer_name,customer_mobile,customer_email,customer_use
rname,customer_password,customer_address FROM T10_TRAVEL.dbo.T10_customerdeta
ilsNEW WHERE customer_id= 001 );
INSERT INTO T10_customerdetailsNEW VALUES('002','CHAITRA','80825','chaitra','
chaitrareddy','msaichaitra','kadapa');
INSERT INTO T10_customerdetailsNEW VALUES('003','MANASA','9127','manasa','hel
lo','hopefullife','kovur');
INSERT INTO T10_customerdetailsNEW VALUES('004','RITHIKA','989787','rithika',
'myself','creativeme','maduria');
INSERT INTO T10_customerdetailsNEW VALUES('005','ROJA','85674','roja','newsta
rt','newroja','ongole');
INSERT INTO T10_customerdetailsNEW VALUES('006','DEEPTI','8083','deepti','lif
e','rightdeepti','belgum');
INSERT INTO T10_customerdetailsNEW VALUES('007','AMRUTHA','8082','amrutha','t
akerest','meamrutha','vizag');
```

```
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('018','SIRI','86674','rush','newstar','newsiri','ongol');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('019','SEEMA','87774','sushma','freshlife','newseema','palem');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('020','VAISHNAVI','89874','aisha','freshstart','newvaish','banglore');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('008','PRAGYA','85654','hemma','nayikahani','newpragya','manglore');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('009','PRACHI','8523','yashh','exaalert','prachi','goa');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('010','SRISTI','83444','nika','newstat','iknow','hubli');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('011','SRUTI','85687','seersha','nestart','ifeelu','dharwad');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('012','PREETA','83444','fazila','neart','makeme','araku');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('013','KRITHIKA','83674','grahuri','art','livetofull','sangam');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('014','PRIYA','84321','nikitha','newstt','urgud','buchi');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('015','ROYA','85667','nisha','nestt','dontno','delhi');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('016','JIYA','84493','shrija','nstart','newparent','bombay');
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('017','RIYA','85554','nisha','nert','lifeisme','dargling');
```

OUTPUT:



The screenshot shows the results of a SQL query in Azure Data Studio. The query is: `USE T10_TRAVEL; SELECT * FROM T10_customerdetailsNEW; INSERT INTO T10_customerdetailsNEW(customer_id,customer_name,customer_mobile,customer_email,customer_username,customer_password,customer_address) SELECT customer_id,customer_name,customer_mobile,customer_email,customer_username,customer_password,customer_address FROM T10_TRAVEL.dbo.T10_customerdetails`. The results are displayed in a table with 7 columns: customer_id, customer_name, customer_mobile, customer_email, customer_username, customer_password, and customer_address. The table contains 20 rows of data.

customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	ITESH	959820	iaasha	seashasraa	new	Palt
2	CHAITRA	98988	chaitra	chaitrareddy	maichaitra	Kadapa
3	ANASA	9127	anasa	halla	hopefullife	Konur
4	RITHIKA	987757	rishika	myself	craticome	Kadapa
5	RIJA	85474	rija	newstart	newstar	peggie
6	DEEPTI	9081	deepti	life	rightlife	belga
7	ANRITHA	9091	anritha	lifeest	newstar	ring
8	ANRITHA	9091	anritha	lifeest	newstar	ring
9	ANRITHA	9091	anritha	lifeest	newstar	ring
10	ANRITHA	9091	anritha	lifeest	newstar	ring
11	ANRITHA	9091	anritha	lifeest	newstar	ring
12	ANRITHA	9091	anritha	lifeest	newstar	ring
13	ANRITHA	9091	anritha	lifeest	newstar	ring
14	ANRITHA	9091	anritha	lifeest	newstar	ring
15	ANRITHA	9091	anritha	lifeest	newstar	ring
16	ANRITHA	9091	anritha	lifeest	newstar	ring
17	ANRITHA	9091	anritha	lifeest	newstar	ring
18	ANRITHA	9091	anritha	lifeest	newstar	ring
19	ANRITHA	9091	anritha	lifeest	newstar	ring
20	ANRITHA	9091	anritha	lifeest	newstar	ring

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

QUERY:

USE T10_TRAVEL

INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile ,customer_email,customer_username,customer_password,customer_address)

VALUES('018','SIRI','86674','rush','newstar','newsiri','ongol');



The screenshot shows the execution of the same INSERT query as above. The message pane displays an error: "Msg 2627, Level 14, State 1, Line 2 Violation of PRIMARY KEY constraint 'PK_T10_cust_CD65CB855E8D0044'. Cannot insert duplicate key in object 'dbo.T10_customerdetailsNEW'. The duplicate key value is (18). The statement has been terminated. Total execution time: 00:00:00.003".

Message
2:27:35 PM: Started executing query at line 1
Msg 2627, Level 14, State 1, Line 2
Violation of PRIMARY KEY constraint 'PK_T10_cust_CD65CB855E8D0044'. Cannot insert duplicate key in object 'dbo.T10_customerdetailsNEW'. The duplicate key value is (18).
The statement has been terminated.
Total execution time: 00:00:00.003

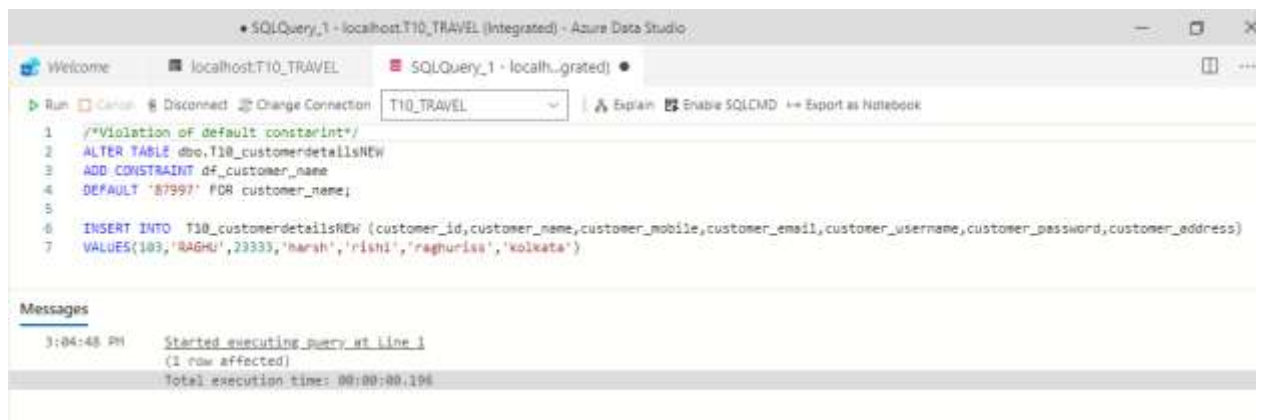
```
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile
,customer_email,customer_username,customer_password,customer_address)
VALUES('030','IRI',NULL,'rushi','newstar','newsiri','ongol');
```



```
/*Violation of default constarint*/
```

```
ALTER TABLE dbo.T10_customerdetailsNEW
ADD CONSTRAINT df_customer_name
DEFAULT '87997' FOR customer_name;
```

```
INSERT INTO T10_customerdetailsNEW (customer_id,customer_name,customer_mobile,
customer_email,customer_username,customer_password,customer_address)
VALUES(103,'RAGHU',23333,'harsh','rishi','raghuriss','kolkata')
```



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

OUTPUT:

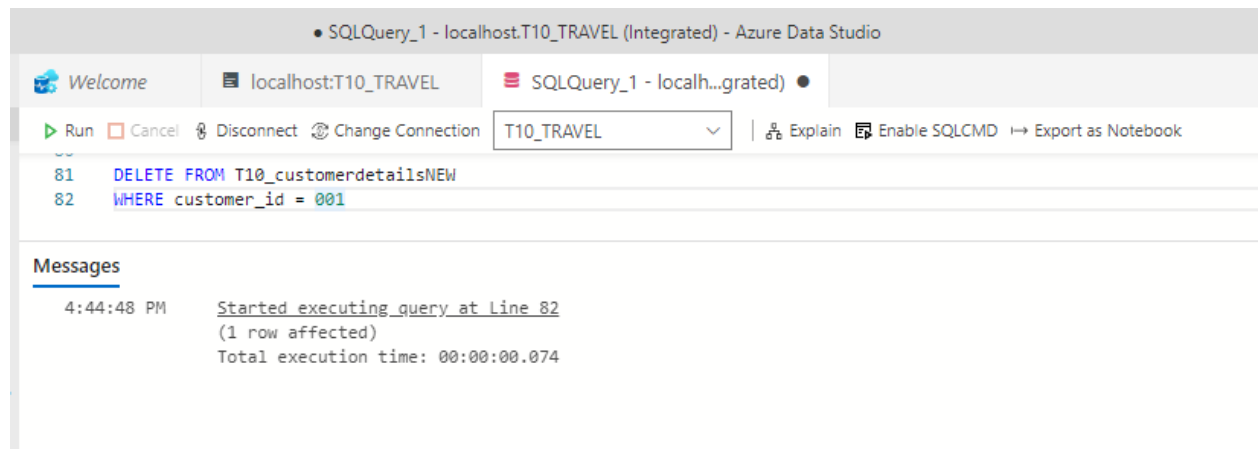


5. Show the violation of foreign key constraint. If any error explain it

QUERY:

```
DELETE FROM T10_customerdetailsNEW  
WHERE customer_id = 001
```

OUTPUT:

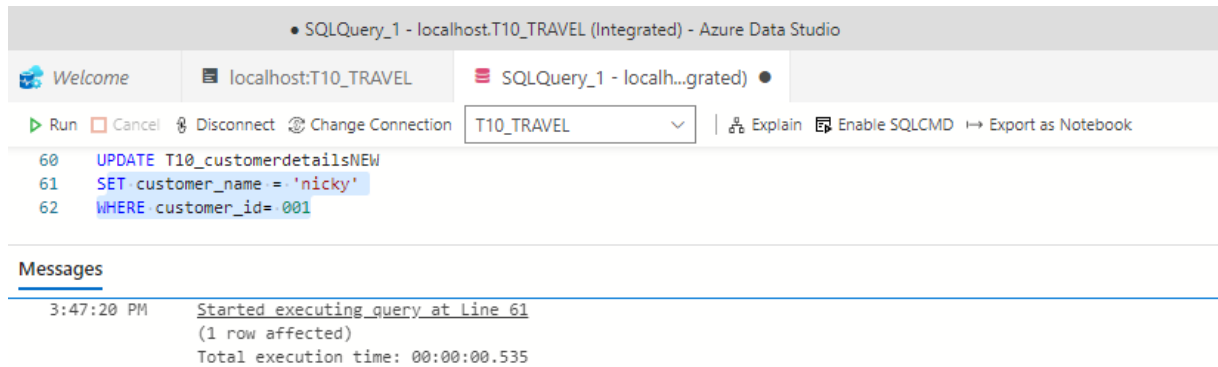


6. Try to update a non-existing entity data and check for error.

QUERY:

```
UPDATE T10_customerdetailsNEW  
SET customer_name = 'nicky'  
WHERE customer_id= 001
```

OUTPUT:



The screenshot shows the Azure Data Studio interface. The top bar indicates the current session is 'SQLQuery_1 - localhost:T10_TRAVEL (Integrated) - Azure Data Studio'. The main editor displays a SQL query with three lines: line 60 is 'UPDATE T10_customerdetailsNEW', line 61 is 'SET customer_name = 'nicky'', and line 62 is 'WHERE customer_id = 001'. Below the editor, the 'Messages' pane shows a log entry at 3:47:20 PM stating 'Started executing query at Line 61 (1 row affected)' and 'Total execution time: 00:00:00.535'.

```
60 UPDATE T10_customerdetailsNEW
61 SET customer_name = 'nicky'
62 WHERE customer_id = 001
```

Messages

3:47:20 PM Started executing query at Line 61
(1 row affected)
Total execution time: 00:00:00.535

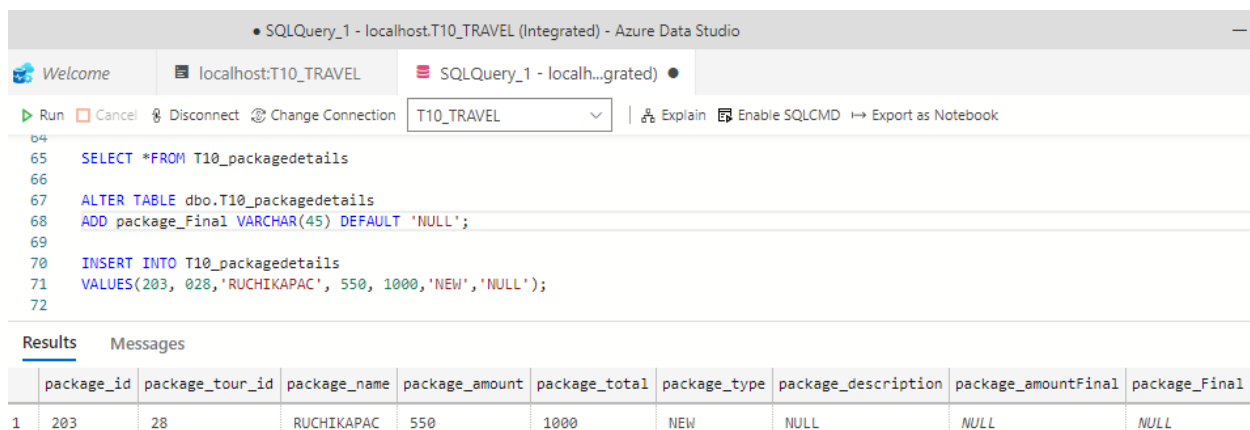
7. Add a column which has a default value QUERY:

```
SELECT *FROM T10_packagedetails

ALTER TABLE dbo.T10_packagedetails
ADD package_Final VARCHAR(45) DEFAULT 'NULL';

INSERT INTO T10_packagedetails
VALUES(203, 028, 'RUCHIKAPAC', 550, 1000, 'NEW', 'NULL');
```

OUTPUT:



The screenshot shows the Azure Data Studio interface with a SQL query executed. The query consists of three parts: a SELECT statement, an ALTER TABLE statement to add a 'package_Final' column with a default value of 'NULL', and an INSERT statement. The 'Results' pane at the bottom displays a table with 10 columns: package_id, package_tour_id, package_name, package_amount, package_total, package_type, package_description, package_amountFinal, and package_Final. The first row of data shows values for package_id 203, package_tour_id 28, package_name 'RUCHIKAPAC', package_amount 550, package_total 1000, package_type 'NEW', package_description 'NULL', package_amountFinal 'NULL', and package_Final 'NULL'.

```
64
65 SELECT *FROM T10_packagedetails
66
67 ALTER TABLE dbo.T10_packagedetails
68 ADD package_Final VARCHAR(45) DEFAULT 'NULL';
69
70 INSERT INTO T10_packagedetails
71 VALUES(203, 028, 'RUCHIKAPAC', 550, 1000, 'NEW', 'NULL');
72
```

Results Messages

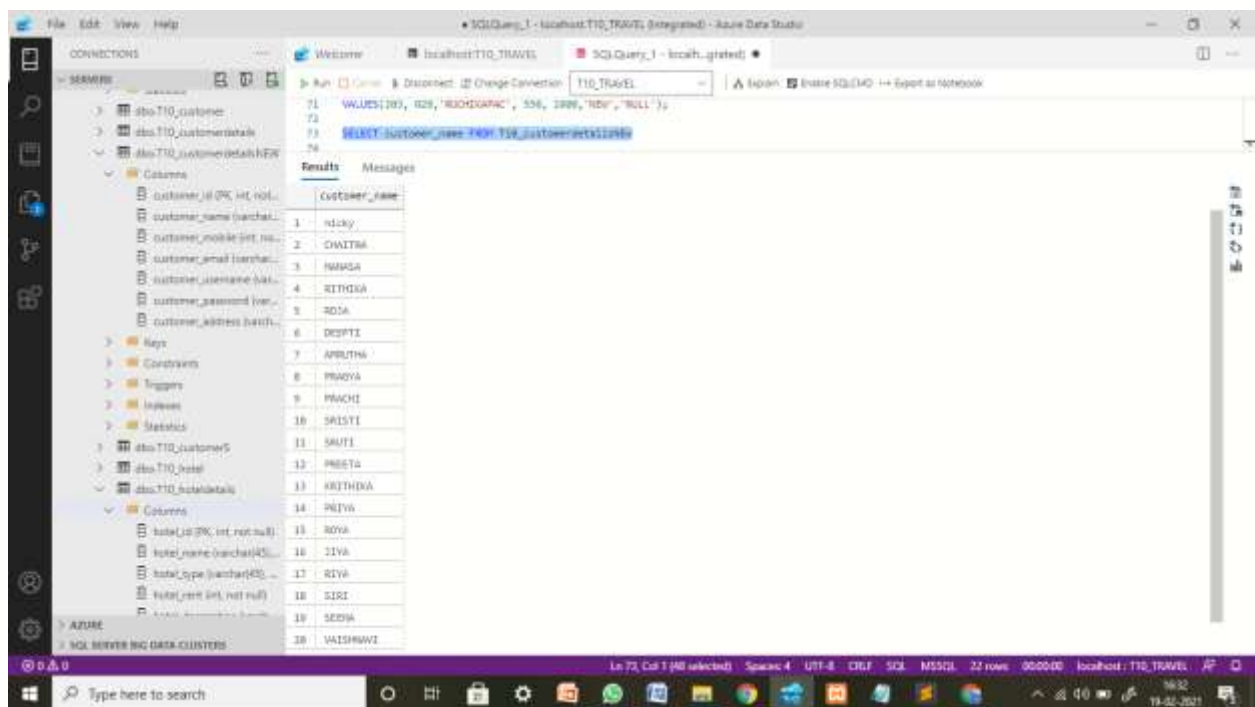
	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	package_amountFinal	package_Final
1	203	28	RUCHIKAPAC	550	1000	NEW	NULL	NULL	NULL

8. Five simple queries to retrieve data from database

QUERY:

```
SELECT customer_name FROM T10_customerdetailsNEW
SELECT TOP 5*FROM T10_customerdetailsNEW
SELECT customer_name FROM T10_customerdetailsNEW
WHERE customer_id = 001
SELECT *FROM T10_packagedetails
Select * from T10_customerdetailsNEW
where customer_id in (Select customer_id from T10_bookingdetails where
customer_id = 001);
```

OUTPUT:



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the server hierarchy, including the 'Columns' folder for the 'dbo.T10_customerdetailsNEW' table. The right pane shows the 'Results' tab with a table of customer names. The query executed is 'SELECT customer_name FROM T10_customerdetailsNEW'. The results table has one column, 'Customer_name', and 20 rows of data.

Customer_name
1. ndicky
2. CHAITRA
3. SHARDA
4. KITHIKA
5. ROSA
6. DEEPTI
7. ANRUTHA
8. PRAGYA
9. PRACHI
10. PAISYI
11. SAUTI
12. PREETA
13. KRITHIKA
14. PRIYA
15. ROYA
16. DIYA
17. RIVA
18. SURI
19. SEENA
20. VAISHNAVI

SQL Query 1 - localhost:T10_TRAVEL (Integrated) - Azure Data Studio

Run | Cancel | Disconnect | Change Connection | T10_TRAVEL | Expand | Create SQL (MD) | Export as Notebook

```

71 VALUES(100, 029, 'BUCHIGAPAC', 556, 2000, 'NDP', 'NULL');
72
73 SELECT customer_name FROM T10_customerdetailsdb
74
75 SELECT TOP 5 FROM T10_customerdetailsdb
76
77 SELECT customer_name FROM T10_customerdetailsdb
78 WHERE customer_id = 801
79
80 SELECT FROM T10_packagedetails
81
82 Select * from T10_customerdetailsdb
83 where customer_id in (Select customer_id from T10_packagedetails where customer_id = 801);
84

```

Results Messages

package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	package_amountFinal	package_Final
1	203	20	BUCHIGAPAC	556	1000	NEW	NULL	NULL

Ln 79, Col 1 (22 selected) | Spaces: 4 | UTF-8 | CRLF | SQL | MSSQL | 1 rows | 00:00:00 | localhost: T10_TRAVEL | 19-02-2021

SQL Query 1 - localhost:T10_TRAVEL (Integrated) - Azure Data Studio

Run | Cancel | Disconnect | Change Connection | T10_TRAVEL | Expand | Create SQL (MD) | Export as Notebook

```

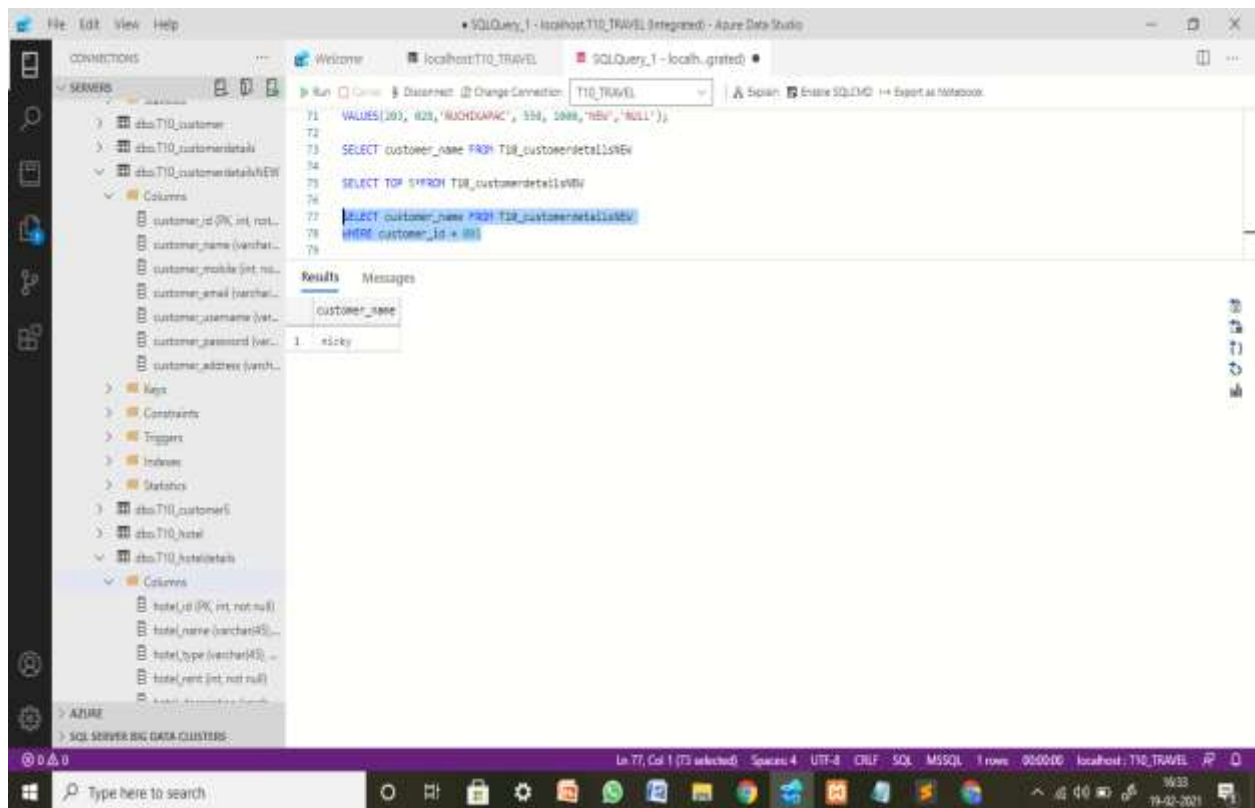
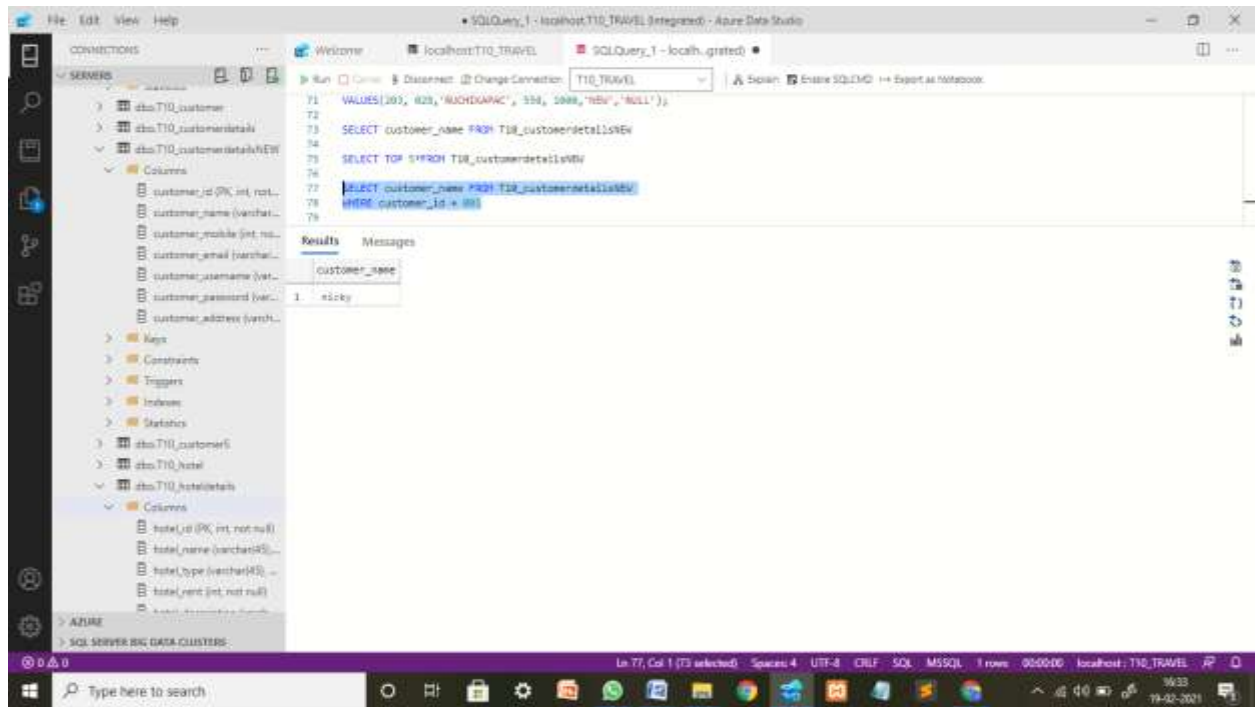
71 VALUES(100, 029, 'BUCHIGAPAC', 556, 2000, 'NDP', 'NULL');
72
73 SELECT customer_name FROM T10_customerdetailsdb
74
75 SELECT TOP 5 FROM T10_customerdetailsdb
76
77 SELECT customer_name FROM T10_customerdetailsdb
78 WHERE customer_id = 801
79
80 SELECT FROM T10_packagedetails
81
82 Select * from T10_customerdetailsdb
83 where customer_id in (Select customer_id from T10_packagedetails where customer_id = 801);
84

```

Results Messages

customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	alicey	999020	Seesta	Seestaa7ree	new

Ln 82, Col 1 (137 selected) | Spaces: 4 | UTF-8 | CRLF | SQL | MSSQL | 1 rows | 00:00:00 | localhost: T10_TRAVEL | 19-02-2021



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.

OUTPUT:



The screenshot shows the Azure Data Studio interface. The top toolbar includes buttons for 'Run', 'Cancel', 'Disconnect', and 'Change Connection'. The 'Run' button is highlighted. Below the toolbar, the SQL query is displayed in a text editor:

```
88  
89 UPDATE T10_tourdetails  
90 SET tour_name = 'NISHA'  
91 WHERE tour_customer_id = 001  
92
```

Below the query editor, the 'Messages' pane shows the execution results:

```
5:03:44 PM Started execution_purch at line 89  
Msg 245, Level 16, State 1, Line 1  
Conversion failed when converting the varchar value 'SINGLE' to data type int.  
Total execution time: 00:00:00.003
```