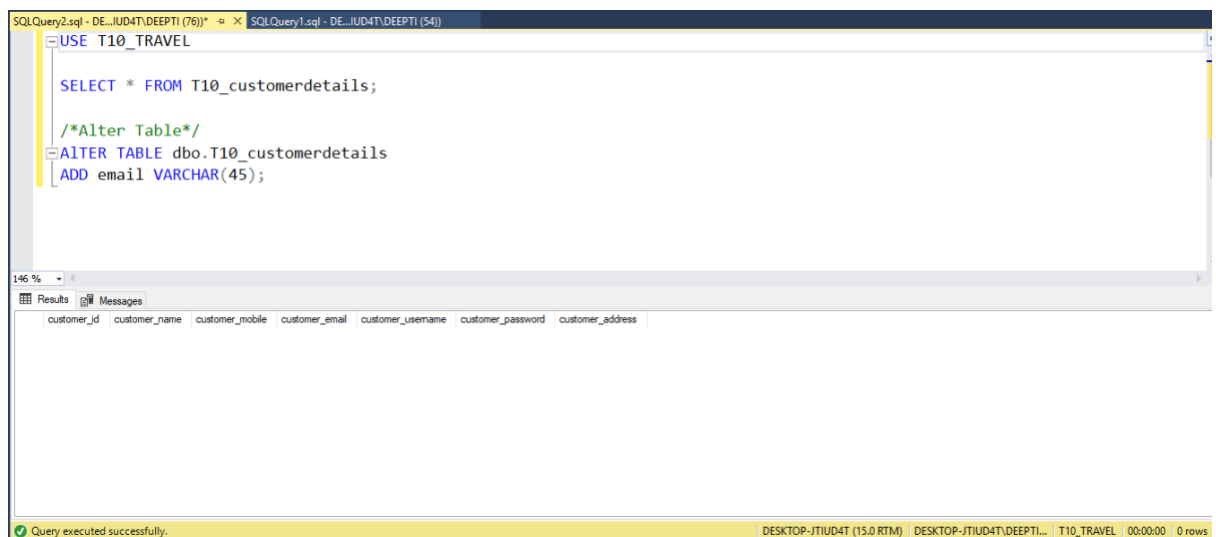


DBMS LAB ASSIGNMENT 3

NAME:DEEPTI.P.R

ROLL NO:19BCS037

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



The screenshot displays the SQL Server Enterprise Manager interface. The top pane shows the SQL query editor with the following code:

```
USE T10_TRAVEL  
  
SELECT * FROM T10_customerdetails;  
  
/*Alter Table*/  
ALTER TABLE dbo.T10_customerdetails  
ADD email VARCHAR(45);
```

The bottom pane shows the 'Results' tab with a table structure for 'customer_details' containing columns: customer_id, customer_name, customer_mobile, customer_email, customer_username, customer_password, and customer_address. The status bar at the bottom indicates 'Query executed successfully.' and 'DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 0 rows'.

SQLQuery2.sql - DE...IUD4T\DEEPTI (76))* X SQLQuery1.sql - DE...IUD4T\DEEPTI (54))

```
ALTER TABLE dbo.T10_customerdetails  
ALTER COLUMN email VARCHAR(45);
```

146 %

Messages

Commands completed successfully.

Completion time: 2021-02-19T16:50:37.2457623+05:30

146 %

Query executed successfully. | DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 0 rows

SQLQuery2.sql - DE...IUD4T\DEEPTI (76))* X SQLQuery1.sql - DE...IUD4T\DEEPTI (54))

```
ALTER TABLE dbo.T10_customerdetails  
DROP COLUMN email;
```

146 %

Messages

Commands completed successfully.

Completion time: 2021-02-19T16:53:11.7383461+05:30

146 %

Query executed successfully. | DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 0 rows

2. Insert 20 Employees Data into all the tables.

```

USE T10_TRAVEL
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_email, customer_mobile, customer_password, customer_address)
VALUES(01, 'Amrutha', 'amrutha@gmail.com', '9663417432', 'apple', 'laxmi', 'delhi')

INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_email, customer_mobile, customer_password, customer_address)
VALUES(02, 'deepthi', 'deepthi@gmail.com', '9663410002', 'bat123', 'deepthi', 'jaipur')

INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_email, customer_mobile, customer_password, customer_address)
VALUES(03, 'rosy', 'rojal23a@gmail.com', '9563617876', 'rosilia', 'rosyi234', 'bangalore')

```

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

Query executed successfully.

SQLQuery1.sql - DE...JUD4T\DEEPTI (55) * X SQLQuery1.sql - DE...JUD4T\DEEPTI (55)

```
SELECT * FROM T10_customerdetails
```

Results

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	Amrutha	9663417432	amrutha@gmail.com	laxmi	apple	delhi
2	2	deepthi	9663410002	deepthi@gmail.com	deepthi	bat123	jaipur
3	3	rosy	9563617876	rojal23a@gmail.com	rosyi234	rosilia	bangalore
4	4	markena	9663412002	markena@gmail.com	summu	chunduru	kadapa
5	5	chitra	9087654321	chitra@gmail.com	reddy123	manchi123	ongole
6	6	shruti	9456387432	shruti123@gmail.com	khandu123	shruu@	hubli
7	7	deepthi	9656432890	deepthi@gmail.com	@1234	deepthi890	belagavi
8	8	laxmi	9999417432	laxmi@gmail.com	laxmi@#*88	laxmi@1234	mangalore
9	9	ieesha	9663421342	ieesha@gmail.com	ieesha@1gg	ai@eesae	koppula
10	10	lisa	9663490909	lisa12@gmail.com	lizara@123	lisa@kzard	chikoddi
11	11	Amnu	9090909092	amnuumnu@gmail.com	lanmu123	amnu@123	bidar
12	12	akhlip	9663243432	akhlip@gmail.com	laxmi@myface	akhlip12	udaipur
13	13	sejal	9663463123	sejal@gmail.com	sejal@123	apple@123sejale	gorakpur
14	14	karik	9034256123	pujara@gmail.com	karikmana@12	karik@123	banglore
15	15	uma	9660017432	umaaa@gmail.com	uma@123	apple@123	uttarakannada
16	16	ma	9678543232	miama@gmail.com	@132ni	aprdg23e	gokarana
17	17	sarjana	9028453442	sarjana@gmail.com	143@me	sarjuQ12	mysore
18	18	Amruthakvi	9663017432	kvlamrutha@gmail.com	laxmi@amnu	amnuv1	mumbai
19	19	dani	9623457432	dani@gmail.com	ladgg3@hmi	adwh21e	kolkata
20	100	Amrutha	904517852	amrutha@gmail.com	Amrutha100	90451	Mumbai
21	10000	Amrutha	9663417432	amrutha@gmail.com	laxmi	apple	myface

Query executed successfully.

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

```

SQLQuery2.sql - DE...JUD4T\DEEPTI (59) * X SQLQuery1.sql - DE...JUD4T\DEEPTI (55)
INSERT INTO dbo.T10_customerdetails
VALUES(01, 'Amrutha', '9663417432', 'amrutha@gmail.com', 'laxmi', 'apple', 'delhi')

```

Messages

Msg 2627, Level 14, State 1, Line 1
Violation of PRIMARY KEY constraint 'PK_T10_cust__CD65CB85DF6BCE62'. Cannot insert duplicate key in object 'dbo.T10_customerdetails'. The statement has been terminated.

Completion time: 2021-02-20T13:52:45.3826083+05:30

The first screenshot shows a SQL query window with the following text:

```
INSERT INTO dbo.T10_customerdetails
VALUES(23, 'Amrutha', '9663417432', NULL, 'laxmi', 'apple', 'delhi')
```

The Messages pane below shows the following error message:

```
Msg 515, Level 16, State 2, Line 1
Cannot insert the value NULL into column 'customer_email', table 'T10_TRAVEL.dbo.T10_customerdetails'; column does not allow nulls. INSERT statement terminated.

Completion time: 2021-02-20T13:55:43.0657745+05:30
```

The status bar at the bottom indicates: "Query completed with errors. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T\DEEPTI... T10_TRAVEL 00:00:00 0 rows".

The second screenshot shows a SQL query window with the following text:

```
INSERT INTO dbo.T10_customerdetails(customer_id, customer_name, customer_mobile, customer_email, customer_username, customer_password)
VALUES(24, 'Amrutha', '9045178502', 'amrutha@gmail.com', 'ammu@123', 'qwerty@123', 'newdelhi', '20')
```

The Messages pane below shows the following message:

```
(1 row affected)

Completion time: 2021-02-20T14:16:23.8685422+05:30
```

The status bar at the bottom indicates: "Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T\DEEPTI... T10_TRAVEL 00:00:00 0 rows".

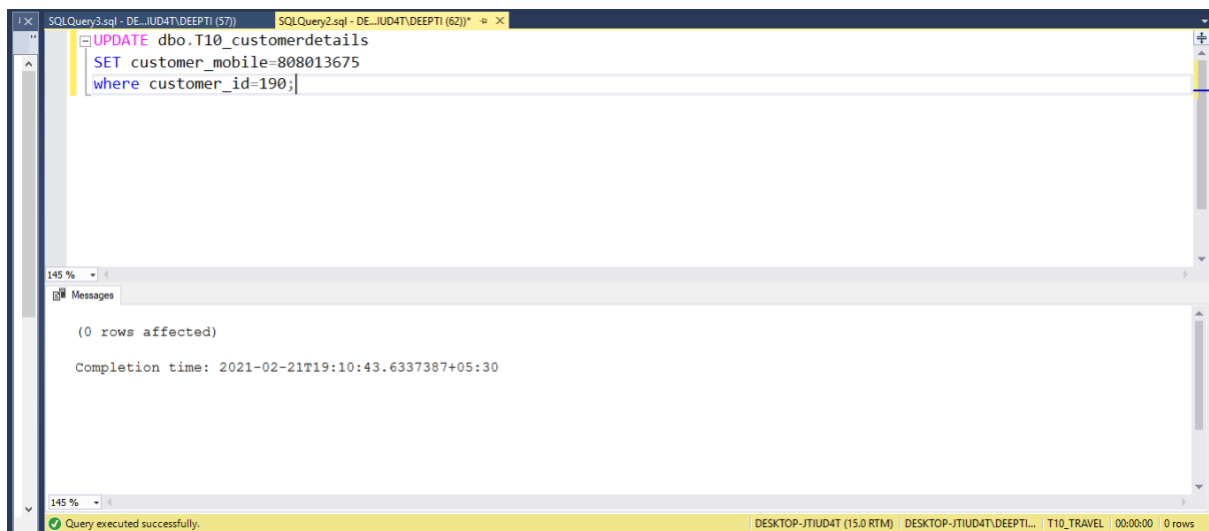
4. Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.

The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery3.sql - DE...IUD4T\DEEPTI (57)' and 'SQLQuery2.sql - DE...IUD4T\DEEPTI (62)'. The active tab displays an SQL query: `INSERT INTO T10_bookingdetails VALUES (1000,1001,'online',20,'single',NULL,140)`. Below the query, the 'Messages' pane shows an error: 'Msg 547, Level 16, State 0, Line 1 The INSERT statement conflicted with the FOREIGN KEY constraint "FK__T10_booki__custo__34C8D9D1". The conflict The statement has been terminated.' The completion time is '2021-02-21T18:59:36.2657993+05:30'. The status bar at the bottom indicates 'Query completed with errors.' and 'DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 0 rows'.

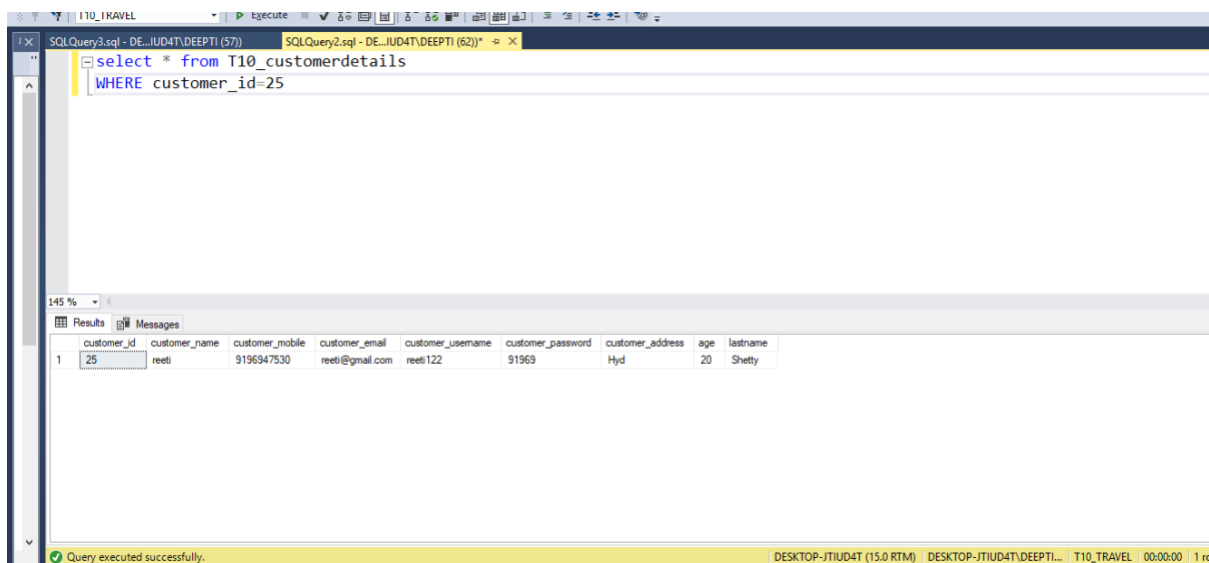
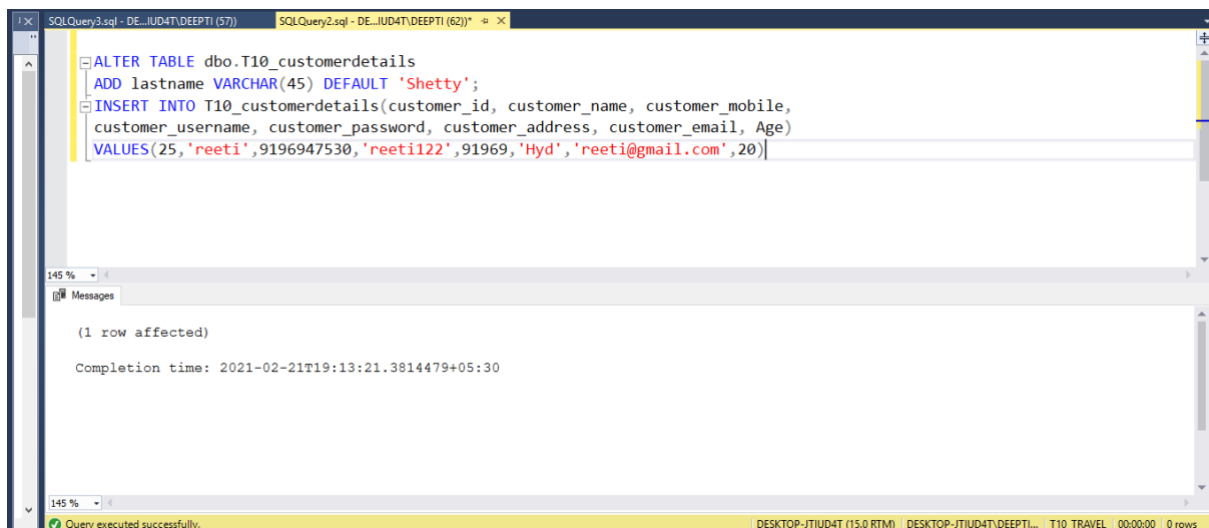
5. Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error

The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery3.sql - DE...IUD4T\DEEPTI (57)' and 'SQLQuery2.sql - DE...IUD4T\DEEPTI (62)'. The active tab displays an SQL query: `DELETE FROM T10_customerdetails where customer_id= 02`. Below the query, the 'Messages' pane shows an error: 'Msg 547, Level 16, State 0, Line 1 The DELETE statement conflicted with the REFERENCE constraint "FK__T10_booki__custo__34C8D9D1". The conflict occurred in The statement has been terminated.' The completion time is '2021-02-21T19:09:26.7413467+05:30'. The status bar at the bottom indicates 'Query completed with errors.' and 'DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 0 rows'.

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



7. Add a column which has default value.



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

SQLQuery3.sql - DE...JUD4T\DEEPTI (57) | SQLQuery2.sql - DE...JUD4T\DEEPTI (62)*

```
select * from T10_customerdetails
```

Results | Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	age	lastname
1	1	Amrutha	904517852	amrutha@gmail.com	Amrutha100	90451	Mumbai	NULL	Shetty
2	2	deepthi	9663410002	deepthi@gmail.com	deeptir	bat123	jaipur	NULL	NULL
3	3	rosy	9563617876	roja123a@gmail.com	rosy234	roslia	bangalore	NULL	NULL
4	4	mankena	9663412002	mankena@gmail.com	summu	chundurur	kadapa	NULL	NULL
5	5	chaitra	9087654321	chaitra@gmail.com	reddy123	manchi123	ongole	NULL	NULL
6	6	shruti	9456387432	shruti123@gmail.com	khandu123	shruti@	hubli	NULL	NULL
7	7	deepthi	9656432890	deepthi@gmail.com	@1234	deepti890	belagavi	NULL	NULL
8	8	laxmi	9999417432	laxmi@gmail.com	laxmi@#*88	laxmi@1234	mangalore	NULL	NULL
9	9	ieesha	9663421342	ieeshaa@gmail.com	ieesha@1gg	ai@eesae	koppula	NULL	NULL
10	10	lisa	9663490909	lisa12@gmail.com	lizars@123	lisa@kzard	chikodd	NULL	NULL
11	11	Ammu	9090909092	ammumumu@gmail.com	ammu123	ammu@123	bidar	NULL	NULL
12	12	akhilp	9663243432	akhilp@gmail.com	laxmi@myface	akhile12	udaipur	NULL	NULL
13	13	sejal	9663463123	sejal@gmail.com	sejal@123	apple@123sejale	gorakpur	NULL	NULL
14	14	katik	9034256123	pujara@gmail.com	katikmana@12	katik@123	bangalore	NULL	NULL
15	15	uma	9660017432	umaaa@gmail.com	uma@123	apple@123	uttarakannada	NULL	NULL
16	16	mia	9678543232	.miamia@gmail.com	@132ni	aprdg23e	gokarana	NULL	NULL
17	17	sanjana	9028453442	sanjana@gmail.com	143@me	sanjuQ12	mysore	NULL	NULL
18	18	Amrutha	9663017432	kvlamrutha@gmail.com	laxmi@ammu	ammukvl	mumbai	NULL	NULL
19	19	dani	9623457432	dani@gmail.com	ladgg3@xmi	adjwh21e	kolkata	NULL	NULL
20	24	Amrutha	9045178502	amrutha@gmail.com	ammu@123	qwerty@123	newdelhi	20	NULL
21	25	reeti	9196947530	reeti@gmail.com	reeti122	91969	Hyd	20	Shetty
22	100	Amrutha	904517852	amrutha@gmail.com	Amrutha100	90451	Mumbai	NULL	NULL
23	10000	Amrutha	9663417432	amrutha@gmail.com	laxmi	apple	myface	NULL	NULL

Query executed successfully. | DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 23 rows

SQLQuery3.sql - DE...JUD4T\DEEPTI (57) | SQLQuery2.sql - DE...JUD4T\DEEPTI (62)*

```
SELECT customer_name FROM T10_customerdetails WHERE Age=20;
```

Results | Messages

	customer_name
1	Amrutha
2	reeti

Query executed successfully. | DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 2 rows

SQLQuery3.sql - DE...JUD4T\DEEPTI (57) | SQLQuery2.sql - DE...JUD4T\DEEPTI (62)*

```
SELECT top 5 * FROM T10_customerdetails
```

Results | Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	age	lastname
1	1	Amrutha	904517852	amrutha@gmail.com	Amrutha100	90451	Mumbai	NULL	Shetty
2	2	deepthi	9663410002	deepthi@gmail.com	deeptir	bat123	jaipur	NULL	NULL
3	3	rosy	9563617876	roja123a@gmail.com	rosy234	roslia	bangalore	NULL	NULL
4	4	mankena	9663412002	mankena@gmail.com	summu	chundurur	kadapa	NULL	NULL
5	5	chaitra	9087654321	chaitra@gmail.com	reddy123	manchi123	ongole	NULL	NULL

Query executed successfully. | DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 5 rows

SQLQuery3.sql - DE...IUD4T\DEEPTI (57) | SQLQuery2.sql - DE...IUD4T\DEEPTI (62) |

```
SELECT* FROM T10_customerdetails
where Age= 20
```

145 %

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	age	lastname
1	24	Amrutha	9045178502	amrutha@gmail.com	ammu@123	qwerly@123	newdelhi	20	NULL
2	25	reeti	9196947530	reeti@gmail.com	reeti122	91969	Hyd	20	Shetty

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 2 rows

SQLQuery3.sql - DE...IUD4T\DEEPTI (57) | SQLQuery2.sql - DE...IUD4T\DEEPTI (62) |

```
SELECT customer_id FROM T10_customerdetails
where lastname = 'Shetty'
```

145 %

Results Messages

	customer_id
1	1
2	25

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10_TRAVEL | 00:00:00 | 2 rows

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.

SQLQuery2.sql - DE...IUD4T\DEEPTI (58)) * SQLQuery1.sql - DE...IUD4T\DEEPTI (53))

```
USE T10_TRAVEL
UPDATE dbo.T10_bookingdetails
SET customer_id= 130
WHERE booking_id=10000;
```

145 %

Messages

(0 rows affected)

Completion time: 2021-02-21T20:23:48.6716440+05:30

145 %

< > Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T\DEEPTI... T10_TRAVEL 00:00:00 0 rows