

Group 8:

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HW3: Test Cases

1. Update:

CustomerID	Country	Password
11265	India	pass10
11266	India	pass21
11290	India	pass11
12526	Istambul	updated
12583	France	DEF
12662	Germany	GHI
12713	Germany	JKL

After updating:

```
166 • UPDATE Customer SET Country= "India" WHERE CustomerID= 12526;
167
```

100% 24:163

Result Grid Filter Rows: Search Edit: Export/Import:

CustomerID	Country	Password
11266	India	pass21
11290	India	pass11
12526	India	updated
12580	France	DEF
12662	Germany	GHI
12713	Germany	JKL
13047	United Kingdon	orders3

2. Delete:



162

163 • `select * from Customer;`

164

165

100% 1:163

Result Grid   Filter Rows:

CustomerID	Country	Password
13748	United Kingdom	PQR
14688	United Kingdom	STU
15100	United Kingdom	VWX
15311	United Kingdom	abc
16098	India	def
16789	India	asap
17809	United Kingdom	ghi


After Deleting:

165

166 • `DELETE FROM Customer WHERE CustomerID=15311;`

167

100% 1:167

Action Output 

	Time	Action
✓ 4	18:49:55	DELETE FROM Customer WHERE CustomerID=15311

3. Foreign key reference- Insertion of an Invoice directly in InvoiceDetails table

```
156 #TEST CASES
157 • CALL SQLProject.InvoiceDetailsData(90000,'99999',6);
158
159
```

Output

#	Time	Action	Message
1	18:23:20	CALL SQ...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (SQLProject.`InvoiceDetails`, CONSTRAINT `InvoiceDetails_ibfk_1` FOREIGN KEY (`InvoiceNo`) REFERENCES `Invoice` (`InvoiceNo`))

When trying to insert a row into the InvoiceDetails, we are getting an error “Cannot add or update a child row” since it has a foreign key constraint on InvoiceNo

4. Primary Key Uniqueness - Duplicate insertion on ManagerID

```
156 #TEST CASES
157 • CALL SQLProject.ManagerData(80000,'pass80');
158 • CALL SQLProject.ManagerData(80000,'pass80');
159
```

Output

#	Time	Action	Message
1	18:28:37	CALL SQ...	Error Code: 1062. Duplicate entry '80000' for key 'PRIMARY'

When we are trying to insert a row into the Manager table with ManagerID that already exists, we are getting an error “Duplicate entry” since ManagerID is a primary key.

5. Trigger:

Immediately after a new customer record has been added to the Customer table, the same entry will be also added to the trigger table. While the trigger is only for insertion on the Customer table, any deletions on the Customer table will not reflect on the child table with the trigger.

156 #TEST CASES

157 • CALL SQLProject.CustomerData(99009,'India','pass1');

158 • SELECT * FROM Customer;

159

<
Result Grid
Filter Rows: <input type="text"/>
Edit:   
Export/Import:  

CustomerID	Country	Password
17850	United Kingdom	jkl
18364	India	Deeksha
18902	India	navya
19584	india	test
21568	India	pass367
46444	America	pass2
76831	India	11111
80964	India	11112
* NULL	NULL	NULL

Customer 1 x

Output

Action Output

#	Time	Action	Message
✖ 1	18:32:11	CALL S...	Error Code: 1062. Duplicate entry '99009' for key 'PRIMARY'
✔ 2	18:32:31	SELEC...	32 row(s) returned

The customer record is not in the main table but it is persistent in the trigger table.

```

156 #TEST CASES
157 • CALL SQLProject.CustomerData(99009,'India','pass1');
158 • SELECT * FROM Customer;
159
160 • SELECT * FROM ConfirmationtoManager;
161

```

Result Grid | Filter Rows: | Edit: | Export/Import:

	CustomerID	Country
▶	11111	India
	13047	United Kingdom
	46444	America
	58364	USA
	76831	India
	80964	India
	99009	India
•	NULL	NULL

ConfirmationtoManager 2 x

Output

Action Output

	#	Time	Action	Message
✖	1	18:32:11	CALL S...	Error Code: 1062. Duplicate entry '99009' for key 'PRIMARY'
✔	2	18:32:31	SELEC...	32 row(s) returned
✔	3	18:37:09	SELEC...	7 row(s) returned


As it can be observed that the trigger table can still have the old records.

6. Login Credential Check

The Customer 12526 has a password of “updated”. When given a wrong password to login, it gives a page with “*Invalid credentials*” as shown.

← → ↻ 127.0.0.1:30036/login.html/

Apps https://www.ultimat... TCS Alumni Portal https://cgifederal.se... Schedule Appointm... Gmail Oracle Ramps Up Fr... Microsoft Azure Sp... How to Check if a P...



Voilà
That's It!

Home Shop

New to our website?

Become a member for special discounts

Create an Account

☒ Customer ☐ Manager

12526

**

Log In Customer

← → ↻ 127.0.0.1:30036/customer_login/

Apps TATA https://www.ultimat... TCS Alumni Porta

Invalid Creditianls

Similarly, for a manager 21065, the password is “def”. When given a wrong password as shown in the screenshot, we see “Invalid Credentials”.



[Home](#) [Shop](#)

[Create an Account](#)

21065

.....

Log In Manager



Invalid Crediantials

7. On Delete Cascade

The main table being Customer table, when a manager tries to delete a customer record from the database, the transaction is rejected since the customerID is referenced in a child table called Customer_Invoice. This case is handled using ON DELETE CASCADE enforcement on the child table.

```

161      #TEST CASES
162  •   DELETE FROM Customer WHERE CustomerID='11259';
163  •   SELECT * FROM Customer_Invoice;
164
165
166

```

InvoiceNo	CustomerID
536370	12583
536371	13748
536373	17850
536374	15100
536375	17850
536378	14688
536380	17809

Customer_Invoice 6 x

Output

#	Time	Action	Message
1	18:57:21	DELET...	1 row(s) affected
2	18:57:43	SELECT...	100 row(s) returned
3	18:58:05	SELECT...	22 row(s) returned
4	18:58:56	DELET...	1 row(s) affected

8. Views

158 #TEST CASES

159 • SELECT * FROM ConfirmationtoManager;

160

Result Grid		
Filter Rows: <input type="text"/>		
Edit:		
	CustomerID	Country
▶	11111	India
▶	13047	United Kingdom
▶	46444	America
▶	58364	USA
▶	76831	India
▶	80964	India
▶	99009	India
▶	NULL	NULL

ConfirmationtoManager 7 ×

Output



Action Output

	#	Time	Action	Message
▶	2	18:57:43	SELECT...	100 row(s) returned
▶	3	18:58:05	SELECT...	22 row(s) returned
▶	4	18:58:56	DELET...	1 row(s) affected
▶	5	18:59:06	SELECT...	21 row(s) returned
▶	6	19:05:04	SELECT...	7 row(s) returned