

DELHI TECHNOLOGICAL UNIVERSITY

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Subject: Database Management System Laboratory

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PRACTICAL - 5

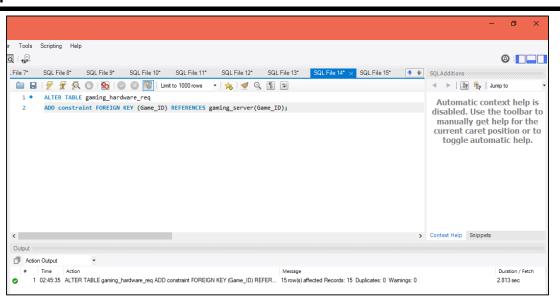
AIM:

- 1. Implement foreign key constraint on a table.
- 2. Check the results if you try to delete or update the value in the original table.
- 3. Use ON CASCADE to make the desired changes.
- 4. Implement inner join, left and right outer joins.

CODE AND OUTPUT:

Command to implement foreign key constraint on a table:

ALTER TABLE gaming_hardware_req
ADD constraint FOREIGN KEY (Game_ID) REFERENCES gaming_server(Game_ID);



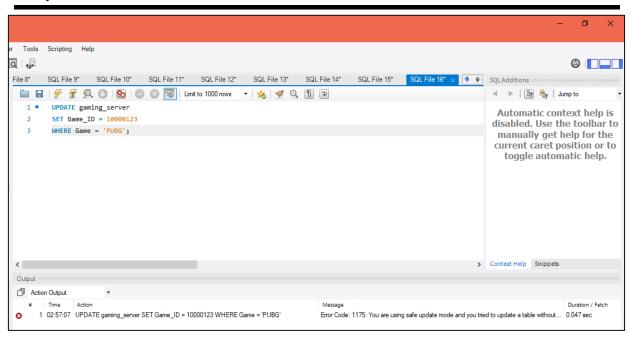
Command to delete values in original table after applying foreign key:

```
DELETE FROM gaming_server
WHERE Game_ID =101017;
Output:
```

Tools Scripting Help @ **__**_ File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* X 🐠 SQL Additions: □ □ □ | \(\frac{\psi}{\psi} \) \(\frac{\psi}{\psi} \) \(\Q \) | \(\Q ⊲ ⊳ | 🖫 🧞 | Jumpto DELETE FROM gaming_server Automatic context help is WHERE Game_ID =101017; disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help. > Context Help Snippets Action Output 1 02:40:24 ALTER TABLE gaming_hardware_req ADD constraint FOREIGN KEY (Game_ID) REFER... 15 row(s) affected Records: 15 Duplicates: 0 Warnings: 0 5.328 sec 2 02:45:15 DELETE FROM gaming_server WHERE Game_ID =101017 Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails ('ga... 0.437 sec

Command to update values in original table after applying foreign key:

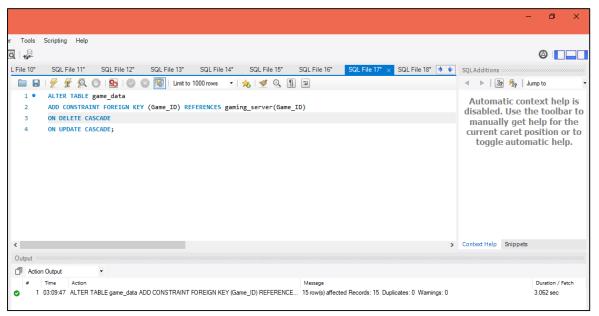
```
UPDATE gaming_server
SET Game_ID = 10000123
WHERE Game = 'PUBG';
```



Command to implement foreign key constraint with ON CASCADE on a table:

```
ALTER TABLE game_data
ADD CONSTRAINT FOREIGN KEY (Game_ID) REFERENCES gaming_server(Game_ID)
ON DELETE CASCADE
ON UPDATE CASCADE;
```

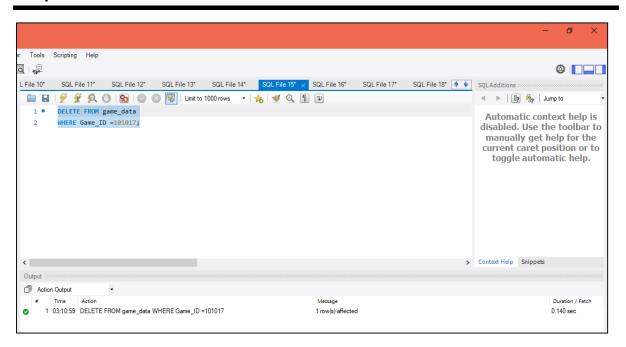
Output:



Command to delete value table after applying foreign key with ON CASCADE:

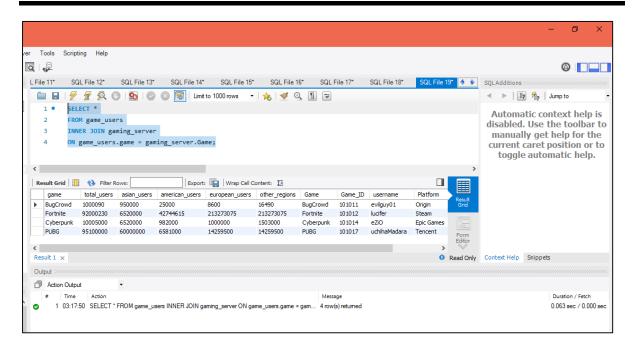
DELETE FROM game_data
WHERE Game_ID =101017;

Output:



Command to use INNER JOIN:

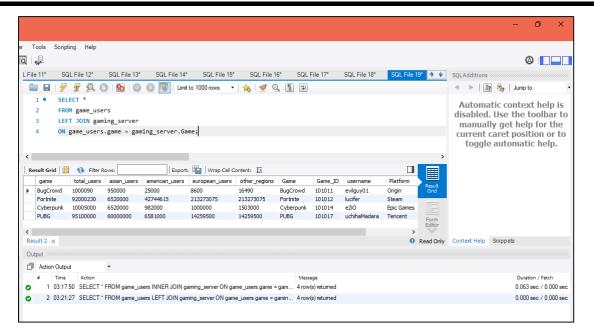
```
SELECT *
FROM game_users
INNER JOIN gaming_server
ON game_users.game = gaming_server.Game;
```



Command to use LEFT OUTER JOIN:

```
SELECT *
FROM game_users
LEFT JOIN gaming_server
ON game_users.game = gaming_server.Game;
```

Output:



Command to use RIGHT OUTER JOIN:

```
SELECT *
FROM game_users
RIGHT JOIN gaming_server
ON game_users.game = gaming_server.Game;
```

