



DELHI TECHNOLOGICAL UNIVERSITY

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PRACTICAL - 7

AIM:

To implement triggers in SQL.

CODE AND OUTPUT:

```
CREATE TRIGGER prac7_trigger
BEFORE UPDATE ON accounts
FOR EACH ROW
SET
    @balance_diff := NEW.balance - OLD.balance;
```

OUTPUT:

Database Used :

The screenshot displays a SQL IDE interface. The top pane shows the SQL code for creating a trigger named 'prac7_trigger' that fires before an update on the 'accounts' table, setting a variable '@balance_diff' to the difference between the new and old balance. The bottom pane shows the 'Output' window with a table of execution results.

#	Time	Action	Message	Duration / Fetch
2	12:06:32	select * from history LIMIT 0, 1000	12 row(s) returned	0.015 sec / 0.000 sec
3	12:06:44	select * from accounts LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
4	12:08:00	CREATE TRIGGER prac7_trigger BEFORE UPDATE ON accounts FOR EACH ROW SET @balance_diff := NEW.balance - OLD.balance;	0 row(s) affected	0.031 sec
5	12:08:00	select * from accounts LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
6	12:23:54	UPDATE ACCOUNTS set balance = 5000 where name = 'John'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
7	12:24:14	SELECT * FROM accounts LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

```
MySQL 8.0 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.20 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use mydatabase
Database changed
mysql> UPDATE accounts SET balance = 10000 WHERE name = 'John';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT @balance_diff;
+-----+
| @balance_diff |
+-----+
|          5000 |
+-----+
1 row in set (0.00 sec)

mysql> .
```