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**Roll no:** 13165

Batch: A3

**Aim**: Database Trigger (All Types: Row level and Statement level triggers, Before and After Triggers).

SQL> SET SERVEROUT ON

SQL> SET VERIFY OFF

SQL> CREATE TABLE Lib 1(book name VARCHAR2(25), status VARCHAR2(15));

Table created.

SQL> INSERT INTO Lib 1 VALUES('DARK MATTER','AVAILABLE');

1 row created.

SQL> INSERT INTO Lib 1 VALUES ('SILENT HILL', 'UNAVAILABLE');

1 row created.

SQL> INSERT INTO Lib\_1 VALUES('GOD OF WAR','AVAILABLE');

1 row created.

SQL> INSERT INTO Lib 1 VALUES('SPIDER-MAN', 'UNAVAILABLE');

1 row created.

SQL> CREATE TABLE library\_ad(date\_modified DATE, book\_name VARCHAR2(25),old\_status VARCHAR(15),new status VARCHAR2(15),action VARCHAR2(25));

Table created.

SQL> CREATE OR REPLACE TRIGGER Trig

- 2 AFTER UPDATE OR DELETE OR INSERT ON Lib 1 FOR EACH ROW
- 3 ENABLE
- 4 BEGIN
- **5** IF UPDATING THEN
- 6 dbms\_output.put\_line(:OLD.status);
- 7 INSERT INTO library\_ad VALUES (SYSDATE,:OLD.book name,:OLD.status,:NEW.status,'UPDATE');
- **8 ELSIF INSERTING THEN**
- 9 dbms output.put line(:NEW.status);

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10 INSERT INTO library_ad VALUES
(SYSDATE,:NEW.book_name,:OLD.status,:NEW.status,'INSERT');
11 ELSE
12 dbms_output.put_line(:OLD.book_name||'deleting');
13 INSERT INTO library ad
VALUES(SYSDATE,:OLD.book name,:OLD.status,:NEW.status,'DELETE');
14 END IF;
15 END;
16 /
Trigger created.
SQL> UPDATE Lib_1 SET status = 'PRE-ORDER' WHERE book_name = 'GOD OF WAR';
AVAILABLE
1 row updated.
SQL> INSERT INTO Lib_1 VALUES('SPM','UNAVAILABLE');
UNAVAILABLE
1 row created.
SQL> UPDATE Lib_1 SET status = 'UNAVAILABLE' WHERE book_name = 'DARK MATTER';
AVAILABLE
1 row updated.
SQL> DELETE FROM Lib 1 WHERE book name = 'SILENT HILL';
SILENT HILLdeleting
1 row deleted.
SQL> Select * from Lib_1;
BOOK_NAME
                    STATUS
DARK MATTER UNAVAILABLE
GOD OF WAR PRE-ORDER
```

SPIDER-MAN UNAVAILABLE

SPM UNAVAILABLE

SQL> Select \* from library\_ad;

DATE\_MODI BOOK\_NAME OLD\_STATUS NEW\_STATUS

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ACTION

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30-SEP-24 GOD OF WAR AVAILABLE PRE-ORDER

**UPDATE** 

30-SEP-24 SPM UNAVAILABLE

**INSERT** 

30-SEP-24 DARK MATTER AVAILABLE UNAVAILABLE

**UPDATE** 

DATE\_MODI BOOK\_NAME OLD\_STATUS NEW\_STATUS

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ACTION

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30-SEP-24 SILENT HILL UNAVAILABLE

DELETE