**ASSIGNMENT-8**

* **Create table Library:**

create table library( BOOK\_NAME varchar(10), FINE number(5) );

|  |  |
| --- | --- |
| **BOOK\_NAME** | **FINE** |
| c | 100 |
| c++ | 10 |
| Java | 60 |
| Python | 90 |
| Verilog | 45 |

* **Create table Audit\_table:**

create table audit\_table(user\_name varchar2(20), timestamp1 date, old\_book\_name varchar2(20), new\_book\_name varchar2(20), old\_fine number(3), new\_fine number(3));

* **FOR EACH ROW Trigger:**

AFTER DELETE OR INSERT OR UPDATE ON library

FOR EACH ROW

BEGIN

INSERT INTO audit\_table (user\_name, timestamp1, old\_book\_name, new\_book\_name, old\_fine, new\_fine)

VALUES (USER, SYSDATE, :OLD.book\_name, :NEW.book\_name, :OLD.fine, :NEW.fine);

END;

1. **Insert :**

insert into library values('DBMS',10)

**Output:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **USER\_NAME** | **TIMESTAMP1** | **OLD\_BOOK\_NAME** | **NEW\_BOOK\_NAME** | **OLD\_FINE** | **NEW\_FINE** |
| **APEX\_PUBLIC\_USER** | **13-SEP-17** | **-** | **DBMS** | **-** | **10** |

1. **Update:**

update library

set fine=35,book\_name='CN'

where book\_name='c'

**Output:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **USER\_NAME** | **TIMESTAMP1** | **OLD\_BOOK\_NAME** | **NEW\_BOOK\_NAME** | **OLD\_FINE** | **NEW\_FINE** |
| APEX\_PUBLIC\_USER | 13-SEP-17 | - | DBMS | - | 10 |
| **APEX\_PUBLIC\_USER** | **13-SEP-17** | **c** | **CN** | **100** | **35** |

1. **Delete:**

delete from library

where book\_name='verilog'

**Output:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **USER\_NAME** | **TIMESTAMP1** | **OLD\_BOOK\_NAME** | **NEW\_BOOK\_NAME** | **OLD\_FINE** | **NEW\_FINE** |
| APEX\_PUBLIC\_USER | 13-SEP-17 | - | DBMS | - | 10 |
| APEX\_PUBLIC\_USER | 13-SEP-17 | c | CN | 100 | 35 |
| **APEX\_PUBLIC\_USER** | **13-SEP-17** | **verilog** | **-** | **45** | **-** |