

ASSIGNMENT 8

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CLASS: TE (B) COMP

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CREATING TABLES AND INSERTING VALUES:

The screenshot shows an SQL Worksheet interface with two tabs: 'assign8_queries.sql' and 'assign8_1.sql'. The 'Worksheet' tab is active, displaying the following SQL code:

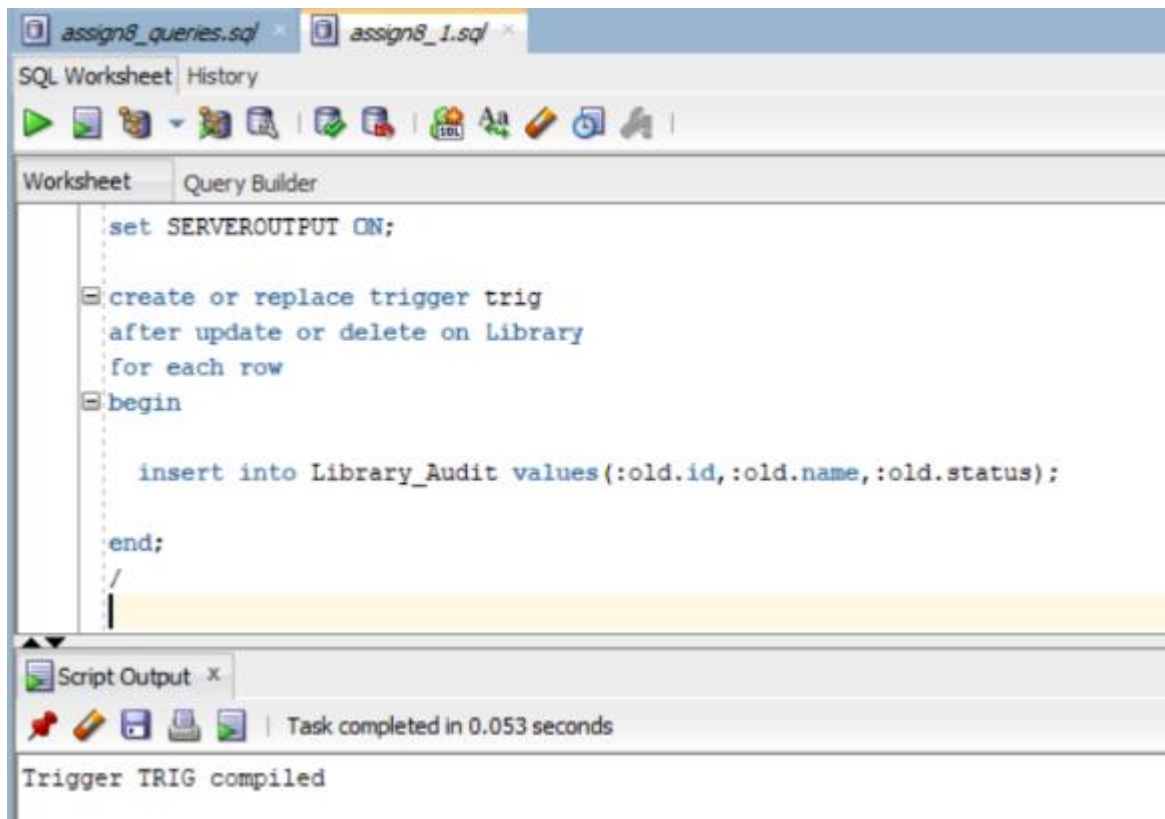
```
create table Library(  
  id number(10),  
  name varchar2(20),  
  status char  
);  
  
create table Library_Audit(  
  id1 number(10),  
  name1 varchar2(20),  
  status1 char  
);  
  
INSERT INTO Library values (1,'SEPM','I');  
INSERT INTO Library values (2,'DBMS','I');  
INSERT INTO Library values (3,'TOC','I');  
INSERT INTO Library values (4,'CN','I');  
INSERT INTO Library values (5,'ISEE','I');  
  
select * from Library;
```

The 'Query Result' tab is also visible, showing the output of the query. It displays a table with 5 rows and 3 columns: ID, NAME, and STATUS. The data is as follows:

ID	NAME	STATUS
1	1 SEPM	I
2	2 DBMS	I
3	3 TOC	I
4	4 CN	I
5	5 ISEE	I

1)ROW LEVEL :

CODE:



```
set SERVEROUTPUT ON;

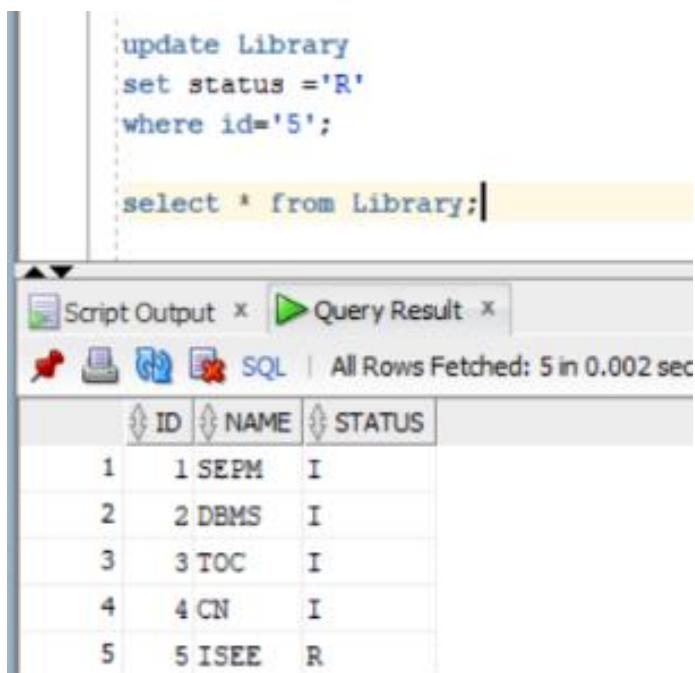
create or replace trigger trig
after update or delete on Library
for each row
begin
    insert into Library_Audit values (:old.id, :old.name, :old.status);
end;
/
```

Script Output x

Task completed in 0.053 seconds

Trigger TRIG compiled

UPDATING THE TABLE:



```
update Library
set status = 'R'
where id = '5';

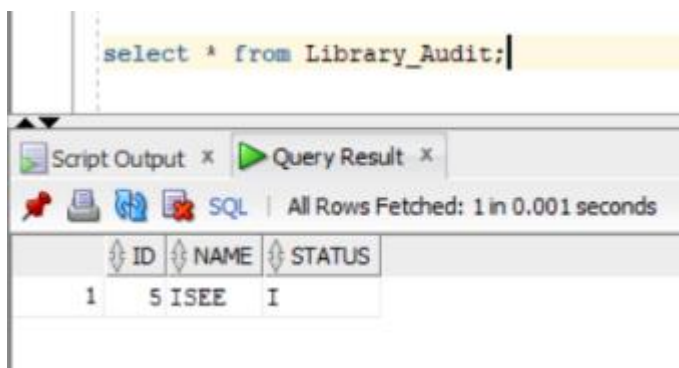
select * from Library;
```

Script Output x Query Result x

All Rows Fetched: 5 in 0.002 sec

ID	NAME	STATUS
1	1 SEPM	I
2	2 DBMS	I
3	3 TOC	I
4	4 CN	I
5	5 ISEE	R

OUTPUT :

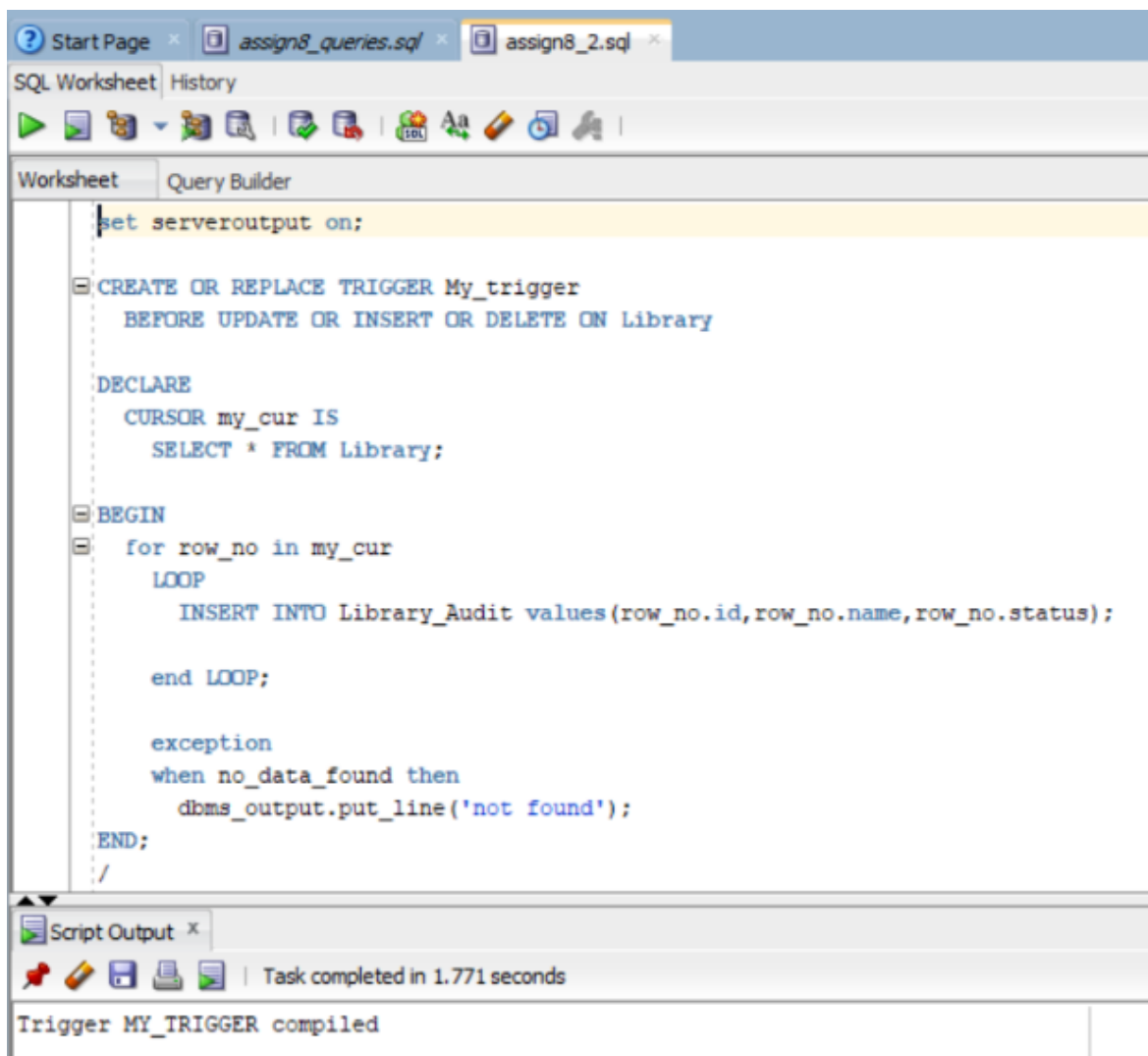


The screenshot shows a SQL Developer window with a query editor at the top containing the text `select * from Library_Audit;`. Below the editor, the 'Query Result' tab is active, displaying a table with three columns: ID, NAME, and STATUS. The table contains one row with the values 1, 5 ISEE, and I. The status bar indicates 'All Rows Fetched: 1 in 0.001 seconds'.

ID	NAME	STATUS
1	5 ISEE	I

2)STATEMENT LEVEL:

CODE:



The screenshot shows a SQL Developer window with a worksheet containing PL/SQL code for a trigger. The code is as follows:

```
set serveroutput on;

CREATE OR REPLACE TRIGGER My_trigger
  BEFORE UPDATE OR INSERT OR DELETE ON Library

DECLARE
  CURSOR my_cur IS
    SELECT * FROM Library;

BEGIN
  for row_no in my_cur
  LOOP
    INSERT INTO Library_Audit values(row_no.id,row_no.name,row_no.status);

  end LOOP;

  exception
  when no_data_found then
    dbms_output.put_line('not found');

END;
/
```

The status bar at the bottom indicates 'Task completed in 1.771 seconds' and 'Trigger MY_TRIGGER compiled'.

UPDATING THE TABLE:

```
update Library
set name ='CNL'
where id=4;

select * from Library;
```

Script Output x Query Result x

SQL | All Rows Fetched: 5 in 0.005 seconds

ID	NAME	STATUS
1	1 SEPM	I
2	2 DBMS	I
3	3 TOC	I
4	4 CNL	I
5	5 ISEE	I

OUTPUT:

```
select * from Library_Audit;
```

Script Output x Query Result x

SQL | All Rows Fetched: 5 in 0.002 seconds

ID	NAME	STATUS
1	1 SEPM	I
2	2 DBMS	I
3	3 TOC	I
4	4 CN	I
5	5 ISEE	I

