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WORKSHEET3.3

Student Name: Rajiv Paul   **UID: 20BCS1812**
Branch: CSE   **Section/Group: 709A**
Semester: 3rd   **Date of Performance: 08/11/2021**
Subject Name:DBMS Lab   **Subject Code: 20CSP-215**

Q1.

Question 1   5 Points

Write a trigger to ensure that no employee of age less than 25 can be inserted in the database.

Use the editor to format your answer

1) Aim/Overview of the practical:

To write a trigger to ensure that no employee of age less than 25 can be inserted in the database.

2) Software required:

Oracle Live SQL

3) Source Code (screenshot of the query executed):

SQL Worksheet

```
1   CREATE TABLE Employee
2   (
3       EMP_ID number(10) primary key,
4       FIRST_NAME varchar2(50),
5       AGE number(2)
6   );
7
```

Table created.

QL Worksheet

```
1   CREATE or Replace TRIGGER  Check_age  BEFORE INSERT ON Employee
2   FOR EACH ROW
3   BEGIN
4   IF (:NEW.AGE < 25) THEN
5   RAISE_APPLICATION_ERROR(-20000,'Employee age must be greater than or equal to 25.');
6       END IF;
7
8   END;
9
10  insert into Employee values(001,'james',24);
11  insert into Employee values(002,'Rohan',23);
12
```

·igger created.

eet

```
 or Replace TRIGGER  Check_age  BEFORE INSERT ON Employee
CH ROW

EW.AGE < 25) THEN
APPLICATION_ERROR(-20000,'Employee age must be greater than or equal to 25.');
D IF;
```

```
 into Employee values(001,'james',24);
 into Employee values(002,'Rohan',23);
```

```
ployee age must be greater than or equal to 25. ORA-06512: at "SQL_FMMOYAWNGKDGRUHUIGCREIUQS.CHECK_AGE", lir
: "SYS.DBMS_SQL", line 1721


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: "SYS.DBMS_SQL", line 1721
```

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SQL Worksheet

```
 1  CREATE or Replace TRIGGER  Check_age  BEFORE INSERT ON Employee
 2  FOR EACH ROW
 3  BEGIN
 4  IF (:NEW.AGE < 25) THEN
 5  RAISE_APPLICATION_ERROR(-20000,'Employee age must be greater than or equal to 25.');
 6      END IF;
 7
 8  END;
 9
10  insert into Employee values(001,'james',25);
11  insert into Employee values(002,'Rohan',28);
12
```

```
1 row(s) inserted.

1 row(s) inserted.
```

4. **Final Result/Output (after removing the errors): (Screenshot of output without any error)**

EMP_ID	FIRST_NAME	AGE
1	james	25
2	Rohan	28

Download CSV

Learning outcomes (What I have learnt):

1.

Q2.

1) Aim/Overview of the practical:

To apply a trigger on relation client (sno, fname, lname, eid, and password) on attributes fname and password after/before delete or update these columns. The trigger should print the message.2) Software required:

Oracle Live SQL

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3) Source Code (screenshot of the query executed):

SQL Worksheet

```
1  create table client(sno number(10), fname varchar(20), eid number(10),passwrd varchar(20));
2  insert into client values(001,'Rohan',99,'Rohan9');
3  select * from client
4
```

Table created.

1 row(s) inserted.

SNO	FNAME	EID	PASSWRD
1	Rohan	99	Rohan9

Download CSV

SQL Worksheet

```
1  create table client1(sno1 number(10), fname1 varchar(20), eid1 number(10),passwrd1 varchar(20));
2  |
```

Table created.

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SQL Worksheet

```
1   create or replace trigger client_trigg
2   before delete or update on client
3   for each row
4   Begin
5   insert into client1 values(:old.sno,:old.fname,:old.eid,:old.passwrd) ;
6   end;
7
8   update client set passwrd='Rohan99' where sno=001;
9
10  delete from client where sno=001;
```

```
Trigger created.
```

SQL Worksheet

```
1   create or replace trigger client_trigg
2   before delete or update on client
3   for each row
4   Begin
5   insert into client1 values(:old.sno,:old.fname,:old.eid,:old.passwrd) ;
6   end;
7
8   update client set passwrd='Rohan99' where sno=001;
9
10  delete from client where sno=001;
```

```
1 row(s) updated.

1 row(s) deleted.
```

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4. Final Result/Output (after removing the errors): (Screenshot of output without any error)

SNO1	FNAME1	EID1	PASSWRD1
1	Rohan	99	Rohan9
1	Rohan	99	Rohan99

Download CSV

Learning outcomes (What I have learnt):

1.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			