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Class	SE3
Batch	C
Roll No	49

EXPERIMENT NO 8

Views and Triggers

Views:

StudentDetails:

S_ID	NAME	ADDRESS
1	Harsh	Kolkata
2	Ashish	Durgapur
3	Pratik	Delhi
4	Dhanraj	Bihar
5	Ram	Rajasthan

StudentMarks:

ID	NAME	MARKS	AGE
1	Harsh	90	19
2	Ashish	50	20
3	Pratik	80	19
4	Dhanraj	95	21
5	Ram	85	18

Live SQL

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SQL Worksheet

My Session

Schema

Quick SQL

My Scripts

SQL Worksheet

Clear Find Actions Save Run

```

1 CREATE TABLE StudentDetails(
2   S_ID int,
3   Name varchar(50),
4   Address varchar(50)
5 );
6
7 INSERT INTO StudentDetails(S_ID,Name,Address) values(1,'Harsh','Kolkata');
8 INSERT INTO StudentDetails(S_ID,Name,Address) values(2,'Ashish','Durgapur');
9 INSERT INTO StudentDetails(S_ID,Name,Address) values(3,'Pratik','Delhi');
10 INSERT INTO StudentDetails(S_ID,Name,Address) values(4,'Dhanraj','Bihar');
11 INSERT INTO StudentDetails(S_ID,Name,Address) values(5,'Ram','Rajasthan');
12
13 SELECT * FROM StudentDetails;
14

```

S_ID	NAME	ADDRESS
1	Harsh	Kolkata
2	Ashish	Durgapur
3	Pratik	Delhi
4	Dhanraj	Bihar
5	Ram	Rajasthan

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5 rows selected.

≡

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SQL Worksheet

ClearFindActionsSaveRun

```
14
15 CREATE TABLE StudentMarks(
16 ID int,
17 Name varchar(50),
18 Marks int,
19 Age int
20 );
21
22 INSERT INTO StudentMarks(ID,Name,Marks,Age) values(1,'Harsh',90,19);
23 INSERT INTO StudentMarks(ID,Name,Marks,Age) values(2,'Ashish',50,20);
24 INSERT INTO StudentMarks(ID,Name,Marks,Age) values(3,'Pratik',80,19);
25 INSERT INTO StudentMarks(ID,Name,Marks,Age) values(4,'Dhanraj',95,21);
26 INSERT INTO StudentMarks(ID,Name,Marks,Age) values(5,'Ram',85,18);
27
28 SELECT * FROM StudentMarks;
29
30
```

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SQL Worksheet

ClearFindActionsSaveRun

1 row(s) inserted.

1 row(s) inserted.

ID	NAME	MARKS	AGE
1	Harsh	90	19
2	Ashish	50	20
3	Pratik	80	19
4	Dhanraj	95	21
5	Ram	85	18

Download CSV

5 rows selected.

2. Creating View from a single table

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SQL Worksheet Clear Find Actions Save Run

```
30
31 CREATE VIEW DetailsView AS
32 SELECT NAME, ADDRESS
33 FROM StudentDetails
34 WHERE S_ID < 5;
35
36 SELECT * FROM DetailsView;
37
```

View created.

NAME	ADDRESS
Harsh	Kolkata
Ashish	Durgapur
Pratik	Delhi
Dhanraj	Bihar

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SQL Worksheet Clear Find Actions Save Run

```
37
38 CREATE VIEW StudentNames AS
39 SELECT S_ID, NAME
40 FROM StudentDetails
41 ORDER BY NAME;
42
43 SELECT * FROM StudentNames;
```

View created.

S_ID	NAME
2	Ashish
4	Dhanraj
1	Harsh
3	Pratik
5	Ram

3. Creating View from multiple table

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SQL Worksheet Clear Find Actions Save Run

```
45
46 CREATE VIEW MarksView AS
47 SELECT StudentDetails.NAME, StudentDetails.ADDRESS, StudentMarks.MARKS
48 FROM StudentDetails, StudentMarks
49 WHERE StudentDetails.NAME = StudentMarks.NAME;
50
51 SELECT * FROM MarksView;
52
```

View created.

NAME	ADDRESS	MARKS
Harsh	Kolkata	90
Ashish	Dungapur	50
Pratik	Delhi	80
Dhanraj	Bihar	95
Ram	Rajasthan	85

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SQL Worksheet Clear Find Actions Save Run

```
52
53 DROP VIEW MarksView;
54
55 CREATE OR REPLACE VIEW MarksView AS
```

View dropped.

SQL Worksheet

Clear

Find

Actions

Save

Run

```
54  
55 CREATE OR REPLACE VIEW MarksView AS  
56 SELECT StudentDetails.NAME, StudentDetails.ADDRESS, StudentMarks.MARKS, StudentMarks.AGE  
57 FROM StudentDetails, StudentMarks  
58 WHERE StudentDetails.NAME = StudentMarks.NAME;  
59  
60 SELECT * FROM MarksView;  
61
```

View created.

NAME	ADDRESS	MARKS	AGE
Harsh	Kolkata	90	19
Ashish	Durgapur	50	20
Pratik	Delhi	80	19
Dhanraj	Bihar	95	21
Ram	Rajasthan	85	18

SQL Worksheet

Clear

Find

Actions

Save

Run

```
60 SELECT * FROM MarksView;  
61  
62 INSERT INTO DetailsView(Name, Address)  
63 VALUES('Suresh', 'Gurgaon');  
64 SELECT * FROM DetailsView;  
65  
66 DELETE FROM DetailsView
```

NAME	ADDRESS
Harsh	Kolkata
Ashish	Durgapur
Pratik	Delhi
Dhanraj	Bihar
Suresh	Gurgaon

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SQL WorksheetClearFindActionsSaveRun

```
65
66 DELETE FROM DetailsView
67 WHERE NAME='Suresh';
68 SELECT * FROM DetailsView;
69
70
71
```

NAME	ADDRESS
Harsh	Kolkata
Ashish	Durgapur
Pratik	Delhi
Dhanraj	Bihar

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4 rows selected.

TRIGGERS :

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SQL WorksheetClearFindActionsSaveRun

```
71 create table student(Sid integer, Sname varchar2(10), subj1 integer, subj2 integer, subj3 integer, total integer, per integer)
72 create or replace trigger stud_marks
73 before INSERT
74 on
75 Student
76 for each row
77 declare
78 begin
79 :new.total := :new.subj1 + :new.subj2 + :new.subj3;
80 :new.per := :new.total * 60 / 100;
81 end;
82
```

Trigger created.

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SQL Worksheet Clear Find Actions Save Run

```
80 :new.per := :new.total * 60 / 100;
81 end;
82 INSERT INTO STUDENT(SID, SNAME, SUBJ1, SUBJ2, SUBJ3) VALUES(1,'Nidhi',
83 75,72,73);
84 INSERT INTO STUDENT(SID, SNAME, SUBJ1, SUBJ2, SUBJ3) VALUES(2,'Amay',
85 75,72,73);
86 INSERT INTO STUDENT(SID, SNAME, SUBJ1, SUBJ2, SUBJ3) VALUES(3,'Radha',
87 75,72,73);
88 SELECT * FROM student;
```

1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.

SID	SNAME	SUBJ1	SUBJ2	SUBJ3	TOTAL	PER
1	Nidhi	75	72	73	220	132
2	Amay	75	72	73	220	132
3	Radha	75	72	73	220	132

Download CSV
3 rows selected.

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SQL Worksheet Clear Find Actions Save Run

```
89 create or replace trigger Stud_t1
90 before insert
91 on
92 Student
93 for each row
94 declare
95 w_sid number;
96 begin
97 select max(sid) into w_sid from Student;
98 :new.sid:=w_sid+1;
99 End;
100
```

Trigger created.

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SQL Worksheet Clear Find Actions Save Run

```
94 declare
95 w_sid number;
96 begin
97 select max(sid) into w_sid from Student;
98 :new.sid:=w_sid+1;
99 End;
100 DROP TRIGGER Stud_t1;
101 ALTER TRIGGER stud_t1 DISABLE;
102
103
104
```

Trigger dropped.