

## Assignment-07

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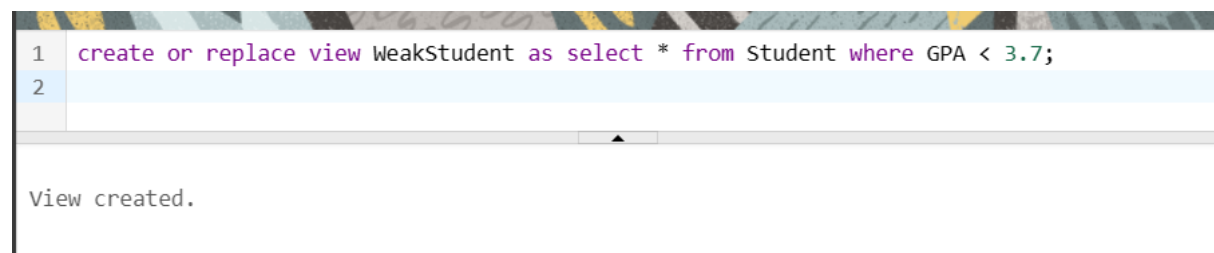
University Roll No. : 2315800020

Subject : DBMS

Subject Code : BCSC 0861

Q1. Create view WeakStudent on Student whose GPA is less than 3.7.

Ans-create or replace view WeakStudent as select \* from Student where GPA < 3.7;

A screenshot of a SQL query execution window. The query editor shows two lines of SQL code: '1 create or replace view WeakStudent as select \* from Student where GPA < 3.7;' and '2'. Below the editor, a status bar displays the message 'View created.'

```
1 create or replace view WeakStudent as select * from Student where GPA < 3.7;
2
```

View created.

Q2. Create a view cView on college (containing all the columns) and rename the column cName as collegeName and enrollment as seats respectively.

Ans- create or replace view cView(collegename, seats) as select cName, enrollment from college;

```

2 v create or replace view cView(collegename, seats) as select cName, enrollment from
3 college;
4 select * from cView

```

View created.

COLLEGENAME	SEATS
Stanford	15000
Berkeley	36000
MIT	10000
Cornell	21000
Harvard	50040

Q3. Create view CSaccept having IDs and college of student who applied to CS major and their application is accepted.

Ans- create or replace view CSaccept as select sID, cName from Apply where major='CS' and decision='Y';

```

1 v create or replace view CSaccept as select sID, cName from Apply
2 where major='CS' and decision='Y';
3 select * from CSaccept;

```

View created.

SID	CNAME
123	Stanford
123	Berkeley
345	Cornell
987	Stanford
987	Berkeley

Q4. Create view CSberkeley having IDs, name, GPA, sizeHS of those student who are accepted in CS at Berkeley and comes

from High School that is greater than 500. (Instruction: You are required to use view CSaccept in this query with Student table for joining)

Ans- create or replace view CSberkeley as select s.sID, s.sName, s.GPA, s.sizeHS from student s join CSaccept cs on s.sID = cs.sID where cs.cName='Berkeley' and s.sizeHS>500;

```
1 v create or replace view CSberkeley as select s.sID, s.sName, s.GPA, s.sizeHS from student s
2 |join CSaccept cs on s.sID = cs.sID where cs.cName='Berkeley' and s.sizeHS>500;
3 select * from CSberkeley;
```

SID	SNAME	GPA	SIZEHS
123	Amy	3.9	1000
987	Helen	3.7	800

Q5. Display information about student in CSberk having GPA greater than 3.8.

Ans- create or replace view CSberk as select \* from student where GPA > 3.8;

select \* from CSberk;

```
1 create or replace view CSberk as select * from student where GPA > 3.8;
2 select * from CSberk;
```

View created.

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
456	Doris	3.9	1000	24-JUL-97
876	Irene	3.9	400	07-MAR-96
654	Amy	3.9	1000	26-MAY-96

Q6. Drop view CSaccept.

Ans- Drop view CSaccept;

```
1 Drop view CSaccept;
```

---

View dropped.

Q7. Display all student in CSberkeley.

Ans- select sName from Csberkeley;

```
1 select sName from CSberkeley;
```

---

SNAME
Amy
Helen

Q8. Update GPA by 0.8 of students in view WeakStudent who having high school size greater than 1000.

Ans- update WeakStudent set GPA = GPA + 0.8 where sizeHS > 1000;

```

1 update WeakStudent set GPA = GPA + 0.8 where sizeHS > 1000;
2 select * from WeakStudent;

```

0 row(s) updated.

SID	SNAME	GPA	SIZEHS	DOB
345	Craig	3.5	500	04-FEB-95
789	Gary	3.4	800	08-OCT-96

Q9. Create a view AppCount which contains sID of Student and number of applications they filed. Name the column sID and NoOfApp.

Ans- create or replace view AppCount(sID, NoOfApp) as  
select sId , count(sid) from Apply group by sid ;

```

1 v create or replace view AppCount(sID, NoOfApp) as select sId , count(sid) from Apply
2 |group by sid ;
3 select * from AppCount;

```

SID	NOOFAPP
123	4
234	1
345	4
543	1
678	1
765	3
876	3
987	2

Q10. Update NoOfApp so that sID 234 contains 4 applications.

Ans- update AppCount set NoOfApp=4 where sID=234;

```
1  update AppCount set NoOfApp=4 where sID=234;
2  -- select * from AppCount;
```

ORA-01732: data manipulation operation not legal on this view

More Details: <https://docs.oracle.com/error-help/db/ora-01732>

Q-11-Create a view StuName contain student name and their GPA. Is this View Updatable? If not specify why.

Ans- This view is not updatable because it does not include the student id which is necessary for identifying a particular unique tuple. sName or Gpa through this view would not work directly because the SQL engine wouldn't know which exact row in the Student table to update.

Q-12 Create view studentHS having details of student comes from High School of size more than 1000 using with check option.

```
1 create or replace view studentHS as select * from Student where sizeHS>1000 with Check option;
```

View created.

Q-13- Try insert detail of a new student Ram with sID 999 having GPA 9.9 and sizeHS 9999 to newly created view studentHS. (Comment is this view updatable?)

```
1 v INSERT INTO studentHS (sID, sName, GPA, sizeHS, DoB)
2 VALUES (999, 'Ram', 9.9, 9999, '01-JAN-99');
3
```

1 row(s) inserted.

Q-14- Clerk realize he wrongly type sizeHS of Ramu as 9999 it is actually 999. Can you help him to update the value of sizeHS of Ramu.

```
1 update Student set sizeHS = 999 where sID = 999;  
2
```

1 row(s) updated.

Q-15- Now, another boy registered to our system named Ramu with sID 998 having GPA 9.8 and sizeHS 989.

```
1 insert into Student (sID, sName, GPA, sizeHS, DoB) values (998, 'Ramu', 9.8, 989, '08-AUG-98');  
2
```

1 row(s) inserted.