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Subject → Database Management
Systems Lab



Subject Code → BCSC 0802


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Qus 1 → Create view WeakStudent on Student whose GPA is less than 3.7.

CODE →

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  **Live SQL**

[Feedback](#) [Help](#) [laxman.vashist_cs19@gla.ac.in](#) 

SQL Worksheet  Clear  Find **Actions**   Save **Run** 

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

View created.

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
567	Edward	2.9	2000	21-DEC-96
789	Gary	3.4	800	08-OCT-96
765	Jay	2.9	1500	08-AUG-98
543	Craig	3.4	2000	27-AUG-05

[Download CSV](#)
6 rows selected.

Qus 2 → Create a view cView on college (containing all the columns) and rename the column cName as collegeName and enrollment as seats respectively.

CODE →

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Live SQL

Feedback Help laxman.vashist_cs19@glia.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1 create view cView(collegename, state, seats) as select * from college;
2 select * from cView;
```

View created.

COLLEGENAME	STATE	SEATS
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

Download CSV
5 rows selected.

Qus 3 → Create view CSaccept having IDs and college of student who applied to CS major and their application is accepted.

CODE →

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SQL Worksheet

Clear Find Actions Save Run

```
1 create view CSaccept as select sid, cname from apply where major = 'CS' and decision = 'Y' ;
2 select * from CSaccept;
```

View created.

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

Download CSV
5 rows selected.

Qus 4 → 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)

CODE →

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Feedback Help laxman.vashist_cs19@glia.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 create view Csberkeley as select sid, sname, gpa, sizeHS from student natural join CSaccept where
2 cname = 'Berkeley' and sizeHS >500 ;
3 select * from Csberkeley;
```

View created.

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

Download CSV
2 rows selected.

Qus 5 → Display information about student in CSberkeley having GPA greater than 3.8.

CODE →

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SQL Worksheet

Feedback Help laxman.vashist_cs19@gla.ac.in

Clear Find Actions Save Run

```
1 select * from CSberkeley where gpa > 3.8;
```

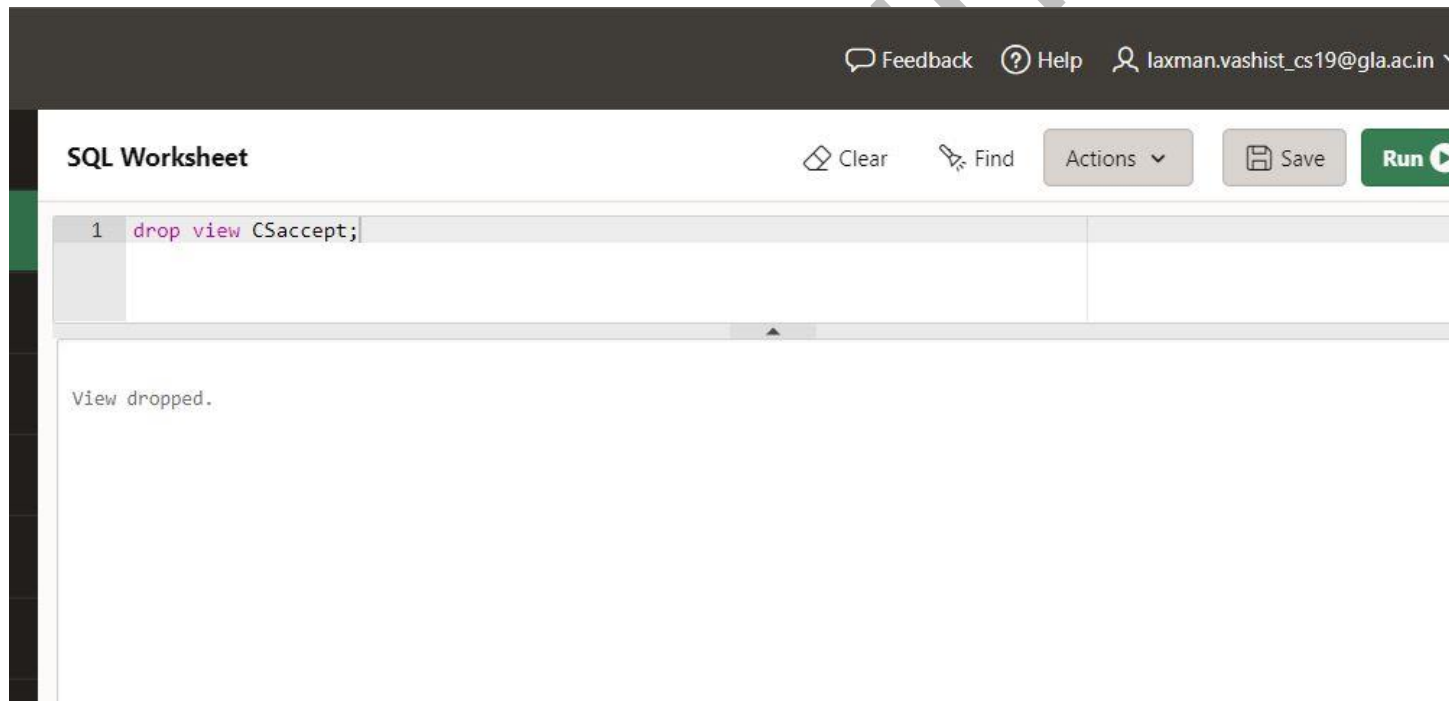
SID	SNAME	GPA	SIZEHS
123	Amy	3.9	1000

Download CSV

Qus 6 → Drop view CSaccept. Q7. Display all student in CSberkeley.

CODE →

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The screenshot shows a web-based SQL Worksheet interface. At the top, there is a dark navigation bar with links for Feedback, Help, and a user profile for laxman.vashist_cs19@gla.ac.in. Below this, the main header area includes the title "SQL Worksheet" and several action buttons: Clear, Find, Actions (with a dropdown arrow), Save, and a green Run button with a play icon. The central workspace is divided into two panes. The top pane contains a single line of SQL code: "1 drop view CSaccept;". The bottom pane displays the output of the query, which is the text "View dropped.".

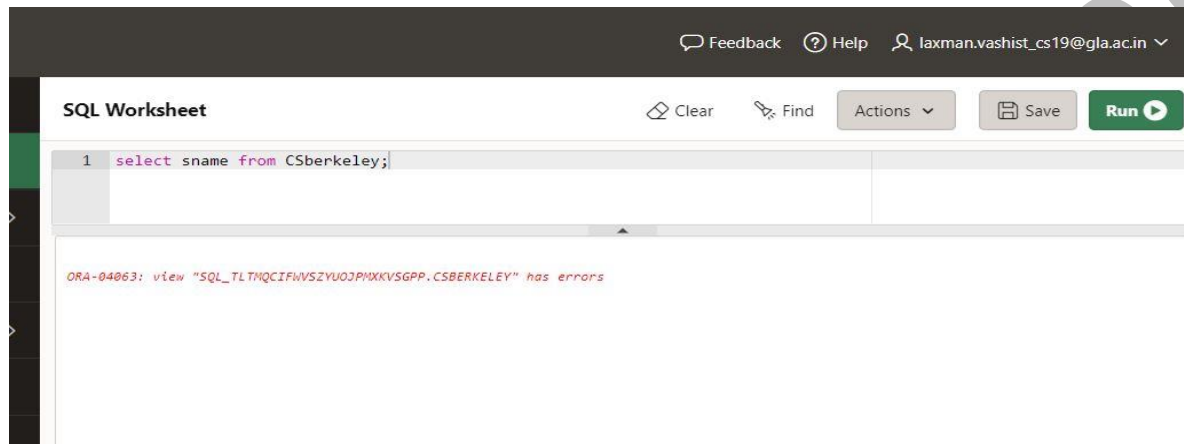
```
1 drop view CSaccept;
```

View dropped.

Qus 7 → Display all student in CSberkeley.

CODE →

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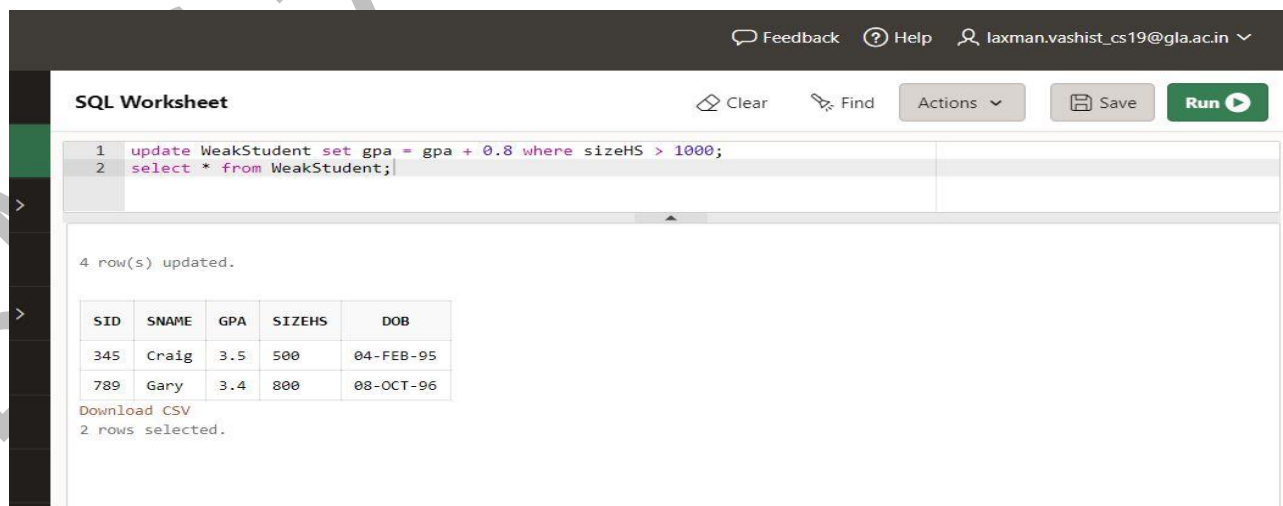


The screenshot shows an SQL Worksheet interface. The query entered is `select sname from CSberkeley;`. Below the query, an error message is displayed: `ORA-04063: view "SQL_TLTMQCIHVSZYUO3PMXXVSGPP.CSBERKELEY" has errors`. The interface includes a top bar with 'Feedback', 'Help', and a user profile 'laxman.vashist_cs19@gla.ac.in'. Below the query editor are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button.

Qus 8 → Update GPA by 0.8 of students in view WeakStudent who having high school size greater than 1000.

CODE →

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The screenshot shows an SQL Worksheet interface. The query entered is `update WeakStudent set gpa = gpa + 0.8 where sizeHS > 1000;` followed by `select * from WeakStudent;`. Below the query, the results are displayed: `4 row(s) updated.` followed by a table with 5 columns: SID, SNAME, GPA, SIZEHS, and DOB. The table contains two rows of data. Below the table, there is a link to 'Download CSV' and the text '2 rows selected.' The interface includes a top bar with 'Feedback', 'Help', and a user profile 'laxman.vashist_cs19@gla.ac.in'. Below the query editor are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button.

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

Qus 9 → Create a view AppCount which contains sID of Student and number of applications they filed. Name the column sID and NoOfApp.

CODE →

=====

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 create view AppCount as select sid, count(major) as No_Of_App from apply group by sid;
2 select * from AppCount;
```

View created.

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

Download CSV
8 rows selected.

Qus 10 → Update NoOfApp so that sid 234 contains 4 applications..

CODE →

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Feedback Help laxman.vash

SQL Worksheet Clear Find Actions

```
1 update AppCount set No_Of_App = 4 where sid = 234;
```

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

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

CODE →

=====

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1 create view StuName as select sname, gpa from Student;
2 select * from StuName;
```

View created.

SNAME	GPA
Amy	3.9
Bob	4.4
Craig	3.5
Doris	3.9
Edward	3.7
Fay	3.8
Gary	3.4
Helen	3.7
Irene	3.9
Jay	3.7
Amy	3.9
Craig	4.2

Download CSV
12 rows selected.

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

CODE →

=====

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 create view StudentHS as select * from Student where sizeHS > 1000 with check option;
2 select * from StudentHS;
```

ORA-00955: name is already used by an existing object

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	4.4	1500	07-APR-95
567	Edward	3.7	2000	21-DEC-96
765	Jay	3.7	1500	08-AUG-98
543	Craig	4.2	2000	27-AUG-05

Download CSV
4 rows selected.

Qus 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?)

CODE →

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Feedback Help laxman.vashist_cs19@glia.ac.in

SQL Worksheet Clear Find Actions Save Run

```
1 Insert into studentHS(sid, sname, gpa, sizeHS) values(999, 'RAM', 9.9, 9999);
2 select * from StudentHS;
```

1 row(s) inserted.

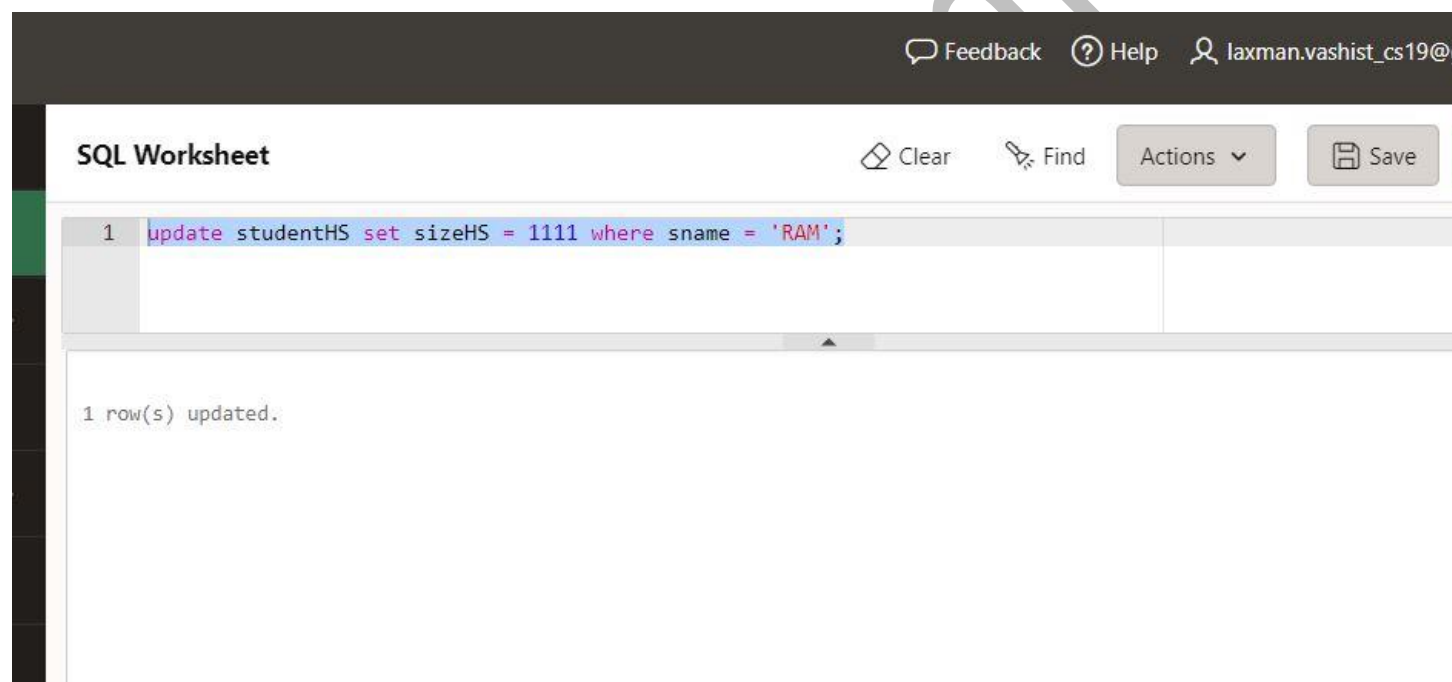
SID	SNAME	GPA	SIZEHS	DOB
234	Bob	4.4	1500	07-APR-95
567	Edward	3.7	2000	21-DEC-96
765	Jay	3.7	1500	08-AUG-98
543	Craig	4.2	2000	27-AUG-05
999	RAM	9.9	9999	-

Download CSV
5 rows selected.

Qus 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 .

CODE ➔

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The screenshot shows a web-based SQL Worksheet interface. At the top, there are links for 'Feedback', 'Help', and a user profile 'laxman.vashist_cs19@'. The main area is titled 'SQL Worksheet' and contains a text editor with the SQL query: `1 update studentHS set sizeHS = 1111 where sname = 'RAM';`. Below the editor, a message states '1 row(s) updated.' The interface includes buttons for 'Clear', 'Find', 'Actions', and 'Save'.

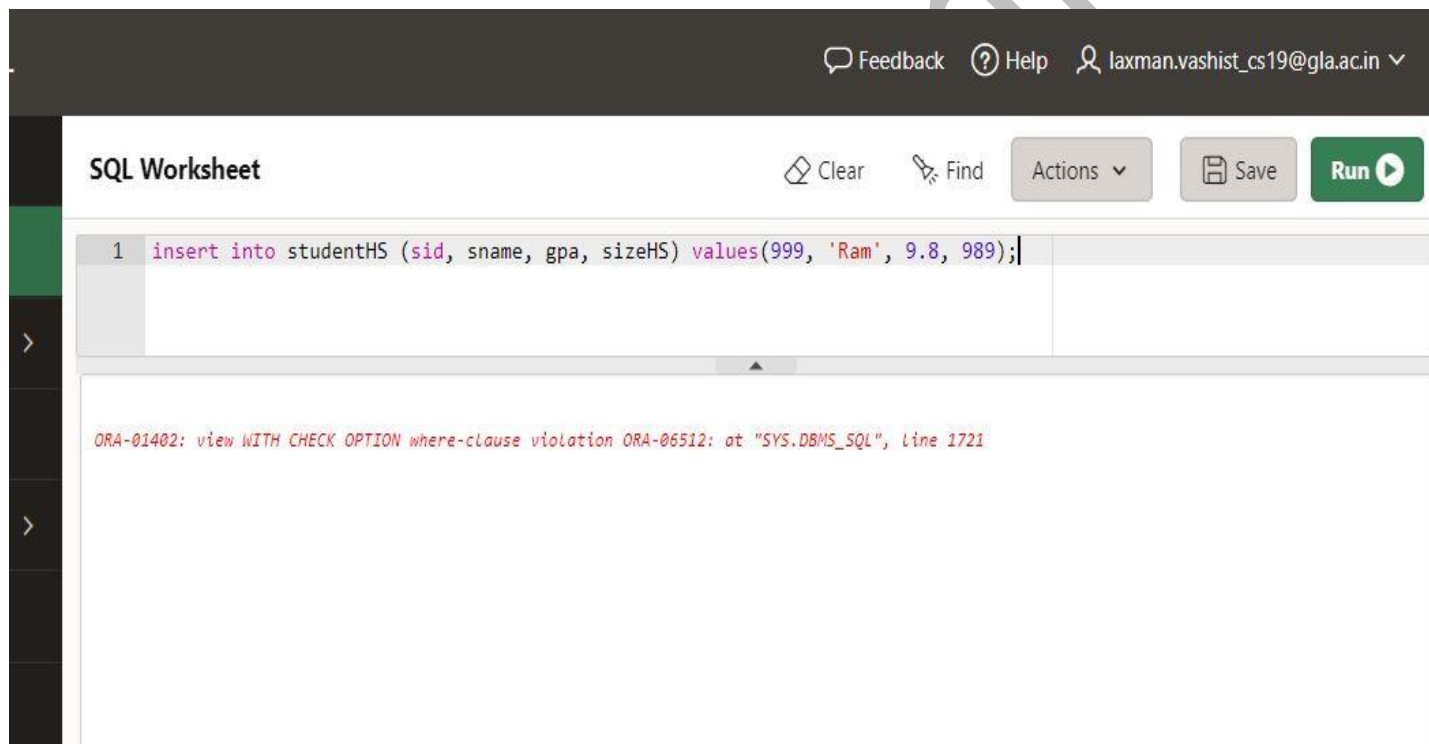
```
1 update studentHS set sizeHS = 1111 where sname = 'RAM';
```

1 row(s) updated.

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

CODE ➔

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The screenshot shows an SQL Worksheet interface. At the top, there is a header bar with 'Feedback', 'Help', and a user profile 'laxman.vashist_cs19@gla.ac.in'. Below this, the 'SQL Worksheet' title is visible. The main area contains a single line of SQL code: `1 insert into studentHS (sid, sname, gpa, sizeHS) values(999, 'Ram', 9.8, 989);`. To the right of the code are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button. Below the code editor, a red error message is displayed: `ORA-01402: view WITH CHECK OPTION where-clause violation ORA-06512: at "SYS.DBMS_SQL", line 1721`.

THANK YOU ...

DBMS 7th Assignment