

## EXPERIMENT 7

### DQL COMMANDS (COLLEGE SCHEMA)

#### Aim:

- Display student id and marks from the student table.
- Display faculty id and name from the faculty table.
- Display who got grade A.
- Display whose marks are less than 50.
- Display the female students whose marks are between 50 to 60.
- Delete the failed students.
- Display activity id and name using object.
- Display student id, faculty id using course name condition with object.
- Select department name starting from 'c' and faculty name ending with ''.
- Select activity having characters between 'ck'.
- Group by faculty id and display.
- Display the students list whose grade is A using having.
- Display the faculty list who are teaching PPS.
- Apply aggregate functions in student marks - max, min, sum, count, avg.

#### SCHEMA:

```
1 • CREATE SCHEMA college20502;
2 • create table student(std_id integer,stud_name varchar(20),gender varchar(10),
3 • alter table student add(std_id integer);
4 • alter table student add(primary key(std_id));
5 • alter table student add(address varchar(20));
6 • alter table student modify stud_name varchar(50);
7 • insert into student values (1,'rani','F','DBMS',95,'o','Hyderabad');
8 • insert into student values (2,'rajesh','M','DBMS',85,'A+','Delhi');
9 • insert into student values (3,'priya','F','DBMS',55,'o','Goa');
10 • insert into student values (4,'komal','M','DBMS',60,'B+','Gujarath');
11 • insert into student values (5,'indu','F','DBMS',89,'o','Mumbai');
12 • select *from student;
13 • select *from student where marks < 50;
14 • select std_id,marks from student;
15 • select std_id,stud_name from student where 50 < marks < 60 and gender = "F";
16 • update student
17   set marks = 50 where std_id = 4;
18 • update student
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update student
set std_name = 'Raju' where std_id = 3;
select *from student order by std_id desc;
select *from student order by grade;
select std_name from student group by grade;
select std_name from student group by grade having grade :
select min(marks) from student;
select max(marks) from student;
select sum(marks) from student;
select avg(marks) from student;

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select *from student;
create table faculty(fac_id integer, fac_name varchar(20).
alter table faculty drop mentor_details;
alter table faculty drop total_mentor_details;
alter table faculty add(total_mentor_detail varchar(20));
alter table faculty add(primary key(fac_id));

```

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36 • insert into faculty values (1,'renu', 'JAVA', '90', 'Hyderabad');
37 • insert into faculty values (2,'priya', 'DS', '70', 'kurnool');
38 • insert into faculty values (3,'raghu', 'DM', '65', 'ooty');
39 • insert into faculty values (4,'laxmi', 'DBMS', '50', 'gujarath');
40 • insert into faculty values (5,'varun', 'DS', '80', 'punjab');
41 • select *from faculty;
42 • select fac_id, fac_name from faculty;
43 • select *from faculty where fac_name like " ";
44 • select *from faculty order by fac_name asc;
45 • select *from faculty group by fac_id;
46 • select fac_name from faculty group by course having course = "DBMs";
47
48 • create table department(dept_no integer, dept_name varchar(20), section varchar(20));
49 • alter table department add(no_of_students_wise integer);
50 • alter table department add(primary key(dep_no));
51 • insert into department values(1,'CSE', 'A', 65, '90', '60');
52 • insert into department values(2,'ECE', 'A', 65, '45', '80');
53 • insert into department values(3,'EEE', 'A', 80, '80', '75');

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54 • insert into department values(4,'IT', 'A', 70, '50', '65');
55 • select *from department;
56 • update department
57   set section = 'B' where dept_no < 4;
58 • delete from department where dept_no = 3;
59 • select *from department where dept_name like "C%";
60 • select *from department;
61
62 • create table activity (act_id integer, act_name varchar(20), no_of_student integer);
63 • alter table activity add(faculty varchar(20));
64 • alter table activity drop faculty_name;
65 • alter table activity modify act_name varchar(50);
66 • alter table activity add(primary key(act_id));
67 • insert into activity values(1,'wise', 300,'college','indira');
68 • insert into activity values(2,'badminton', 50,'sports','rajesh');
69 • insert into activity values(3,'events', 30,'hackathon','lakshmi');
70 • insert into activity values(4,'carroms', 400,'sports','raju');
71 • insert into activity values(5,'sleep', 30,'leave','kalyani');
72 • select *from activity;
73 • update activity
74   set act_name = 'sleep' where act_id < 6 and act_id > 4;
75 • select *from activity where act_name like "C" and "s";
76 • select *from faculty;






```



OUTPUT:



Result Grid	Filter Rows:	Export:	Wrap Cell	Result Grid	Filter Rows:	Export:	Wrap Cell
std_id	stud_name	gender	subject	marks	grade	address	
1	rani	F	DBMS	95	o	Hyderabad	
2	rajesh	M	DBMS	85	A+	Delhi	
3	priya	F	DBMS	55	o	Goa	
4	komal	M	DBMS	60	B+	Gujarath	
5	indu	F	DBMS	89	o	Mumbai	





Result Grid	Filter Rows:	Export:	Wrap Cell
std_id	stud_name		
1	rani		
3	priya		
5	indu		





Result Grid	Result Grid	Result Grid	Result Grid
min(marks)	min(marks)	sum(marks)	avg(marks)
55	55	384	76.8000




Result Grid   Filter Rows: <input type="text"/>					Edit:   
fac_id	fac_name	course	pass_percentage	total_mentor_detail	
1	renu	JAVA	90	Hyderabad	
2	priya	DS	70	kurnool	
3	raghu	DM	65	ooty	
4	laxmi	DBMS	50	gujarath	
5	varun	DS	80	punjab	
NULL	NULL	NULL	NULL	NULL	






Result Grid   Filter	
fac_id	fac_name
1	renu
2	priya
3	raghu
4	laxmi
5	varun
NULL	NULL

Result Grid  	
	fac_name
	laxmi

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 						
	dept_no	dept_name	section	no_of_students	pass_percentage	no_of_students_wise
1	CSE	A	65	90	60	
2	ECE	A	65	45	80	
3	EEE	A	80	80	75	
4	IT	A	70	50	65	

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 						
	dept_no	dept_name	section	no_of_students	pass_percentage	no_of_students_wise
1	CSE	A	65	90	60	

Result Grid   Filter Rows: <input type="text"/> Export:  W					
	act_id	act_name	no_of_student	category_of_act	faculty
1	wise	300	college	indira	
2	badminton	50	sports	rajesh	
3	events	30	hackathon	lakshmi	
4	carroms	400	sports	raju	
5	sleep	30	leave	kalyani	

Result Grid   Filter Rows: <input type="text"/> Edit:   					
fac_id	fac_name	course	pass_percentage	total_mentor_detail	
1	renu	JAVA	90	Hyderabad	
2	priya	DS	70	kurnool	
3	raghu	DM	65	ooty	
4	laxmi	DBMS	50	gujarath	
5	varun	DS	80	punjab	
NULL	NULL	NULL	NULL	NULL	

**Components:**

Instance: It is the collection of information stored in a database at a particular moment.

Entity: Object that is relevant to given system. Represented as rectangle.

Attribute: Trait of an entity, relationship or other attribute.

Represented by oval.

Primary Key: A primary key is a column or a set of columns in a table whose values uniquely identify a row in the table