

Title:- SQL Queries – all types of Join, Sub-Query and View: Write at least 10 SQL queries for suitable database application using SQL DML statements. d. Note: Instructor will design the queries which demonstrate the use of concepts like all types of Join, Sub-Query and View

Enter password: \*\*\*\*\*

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Your MySQL connection id is 27

Server version: 8.0.30 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> create database db_student;
```

Query OK, 1 row affected (0.16 sec)

```
mysql> use db_student;
```

Database changed

```
mysql> create table tbl_student_details(stud_prn integer(10) primary key,stud_name varchar(20) not null,stud_class varchar(20) not null,stud_stream varchar(20) not null );
```

Query OK, 0 rows affected, 1 warning (0.17 sec)

```
mysql>
```

TABLE :-

```
MySQL 8.0 Command Line Client
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Query OK, 1 row affected (0.16 sec)

mysql> use db_student;
Database changed
mysql> create table tbl_student_details(stud_prn integer(10) primary key,stud_name varchar(20) not null,stud_class varchar(20) not null,stud_stream varchar(20) not null);
Query OK, 0 rows affected, 1 warning (0.17 sec)

mysql> _
```

---

Enter password: \*\*\*\*\*

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use db\_student;

Database changed

mysql> create view vw\_student\_details as

-> (

-> select stud\_name,

-> stud\_class

-> from tbl\_student\_details

-> );

Query OK, 0 rows affected (0.08 sec)

```
mysql> select * from vw_student_details;
```

Empty set (0.00 sec)

```
mysql> desc vw_student_details;
```

Field	Type	Null	Key	Default	Extra
stud_name	varchar(20)	NO		NULL	
stud_class	varchar(20)	NO		NULL	

2 rows in set (0.00 sec)

```
mysql> desc tbl_student_details;
```

Field	Type	Null	Key	Default	Extra
stud_prn	int	NO	PRI	NULL	
stud_name	varchar(20)	NO		NULL	
stud_class	varchar(20)	NO		NULL	
stud_stream	varchar(20)	NO		NULL	

4 rows in set (0.00 sec)

```
mysql>
```

```
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use db_student;
Database changed
mysql> create view vw_student_details as
  -> (
  -> select stud_name,
  -> stud_class
  -> from tbl_student_details
  -> );
Query OK, 0 rows affected (0.08 sec)

mysql> select * from vw_student_details;
Empty set (0.00 sec)

mysql> desc vw_student_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stud_name  | varchar(20) | NO   |     | NULL    |       |
| stud_class | varchar(20) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> desc tbl_student_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stud_prn   | int       | NO   | PRI | NULL    |       |
| stud_name  | varchar(20) | NO   |     | NULL    |       |
| stud_class | varchar(20) | NO   |     | NULL    |       |
| stud_stream | varchar(20) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> _
```

Enter password: \*\*\*\*\*

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```
mysql> use db_student;
```

Database changed

```
mysql> desc tbl_student_details;
```

Field	Type	Null	Key	Default	Extra
stud_prn	int	NO	PRI	NULL	
stud_name	varchar(20)	NO		NULL	
stud_class	varchar(20)	NO		NULL	
stud_stream	varchar(20)	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> create INDEX indx_student_details ON tbl_student_details(stud_prn);
```

Query OK, 0 rows affected (0.15 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> create TABLE dummy_table(
```

```
-> col1 int(1),
```

```
-> col2 int(5),
```

```
-> col3 varchar(5),
```

```
-> INDEX (col2,col3)
```

->);

Query OK, 0 rows affected, 2 warnings (0.21 sec)

mysql>

```
MySQL 8.0 Command Line Client
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use db_student;
Database changed
mysql> desc tbl_student_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stud_prn   | int       | NO   | PRI | NULL    |       |
| stud_name  | varchar(20) | NO   |     | NULL    |       |
| stud_class | varchar(20) | NO   |     | NULL    |       |
| stud_stream | varchar(20) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> create INDEX indx_student_details ON tbl_student_details(stud_prn);
Query OK, 0 rows affected (0.15 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> create TABLE dummy_table(
-> col1 int(1),
-> col2 int(5),
-> col3 varchar(5),
-> INDEX (col2,col3)
-> );
Query OK, 0 rows affected, 2 warnings (0.21 sec)

mysql>
```

Enter password: \*\*\*\*\*

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Your MySQL connection id is 30

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use db_student;
```

Database changed

```
mysql> create table tbl_info(
```

```
-> sr_no integer(2) AUTO_INCREMENT PRIMARY KEY,
```

```
-> first_name varchar(10),
```

```
-> last_name varchar(10)
```

```
-> );
```

Query OK, 0 rows affected, 1 warning (0.16 sec)

```
mysql> insert into tbl_info(first_name,last_name) values('Walt','Disony');
```

Query OK, 1 row affected (0.09 sec)

```
mysql> insert into tbl_info(first_name,last_name) values('Harry','Potter');
```

Query OK, 1 row affected (0.12 sec)

```
mysql> select*from tbl_info;
```

```
+-----+-----+-----+
| sr_no | first_name | last_name |
+-----+-----+-----+
| 1 | Walt | Disony |
| 2 | Harry | Potter |
+-----+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql>
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use db_student;
```

Database changed

```
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-> sr_no integer(2) AUTO_INCREMENT PRIMARY KEY,  
-> first_name varchar(10),  
-> last_name varchar(10)  
-> );
```

Query OK, 0 rows affected, 1 warning (0.16 sec)

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mysql> insert into tbl_info(first_name,last_name) values('Walt','Disony');
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Query OK, 1 row affected (0.09 sec)

```
mysql> insert into tbl_info(first_name,last_name) values('Harry','Potter');
```

Query OK, 1 row affected (0.12 sec)

```
mysql> select*from tbl_info;
```

sr_no	first_name	last_name
1	Walt	Disony
2	Harry	Potter

2 rows in set (0.00 sec)

```
mysql>
```