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*****
*****
* Name - Prafulla Bharate
* Roll_no - 04
* assignment 3 - desing at least 10 sql queries for suitable database application using sql
DML statements all type of join ,sub-query and view.
* batch - T2
*****
*****
```

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.38 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 std_details;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use std_details;
Database changed
mysql> create table student2 (roll_no int primary key,name varchar(20),address
varchar(40),phone varchar(10),age varchar(2));
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> desc student2;
+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| roll_no | int           | NO   | PRI | NULL    |      |
| name    | varchar(20)   | YES  |     | NULL    |      |
| address | varchar(40)   | YES  |     | NULL    |      |
| phone   | varchar(10)   | YES  |     | NULL    |      |
| age     | varchar(2)    | YES  |     | NULL    |      |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

```
mysql> insert into student2 values (1,'sham','bihar','1111111111','18');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student2 values (2,'ram','kolkata','2222222222','20');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student2 values (3,'priyanka','pune','3333333333','19');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student2 values (4,'sai','mumbai','4444444444','18');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select*from student2;
```

roll_no	name	address	phone	age
1	sham	bihar	1111111111	18
2	ram	kolkata	2222222222	20
3	priyanka	pune	3333333333	19
4	sai	mumbai	4444444444	18

4 rows in set (0.01 sec)

```
mysql> create table studentcourse (clD int(1),roll_no int, foreign key(roll_no) references student2(roll_no));
```

Query OK, 0 rows affected, 1 warning (0.06 sec)

```
mysql> desc studentcourse;
```

Field	Type	Null	Key	Default	Extra
clD	int	YES		NULL	
roll_no	int	YES	MUL	NULL	

2 rows in set (0.00 sec)

```
mysql> insert into studentcourse values(1,1);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into studentcourse values(2,2);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into studentcourse values(2,3);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into studentcourse values (3,4);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> select *from studentcourse;
```

clD	roll_no
1	1
2	2
2	3
3	4

4 rows in set (0.00 sec)

```
mysql> select*from student2 inner join studentcourse on student2.roll_no =studentcourse.roll_no;
```

roll_no	name	address	phone	age	clD	roll_no
1	sham	bihar	1111111111	18	1	1
2	ram	kolkata	2222222222	20	2	2
3	priyanka	pune	3333333333	19	2	3
4	sai	mumbai	4444444444	18	3	4

4 rows in set (0.00 sec)

```
mysql> select*from student2 left join studentcourse on student2.roll_no
=studentcourse.roll_no;
```

roll_no	name	address	phone	age	cID	roll_no
1	sham	bihar	1111111111	18	1	1
2	ram	kolkata	2222222222	20	2	2
3	priyanka	pune	3333333333	19	2	3
4	sai	mumbai	4444444444	18	3	4

4 rows in set (0.01 sec)

```
mysql> select*from student2 full join studentcourse on student2.roll_no
=studentcourse.roll_no;
```

ERROR 1054 (42S22): Unknown column 'student2.roll_no' in 'on clause'

```
mysql> select*from student2 join studentcourse;
```

roll_no	name	address	phone	age	cID	roll_no
4	sai	mumbai	4444444444	18	1	1
3	priyanka	pune	3333333333	19	1	1
2	ram	kolkata	2222222222	20	1	1
1	sham	bihar	1111111111	18	1	1
4	sai	mumbai	4444444444	18	2	2
3	priyanka	pune	3333333333	19	2	2
2	ram	kolkata	2222222222	20	2	2
1	sham	bihar	1111111111	18	2	2
4	sai	mumbai	4444444444	18	2	3
3	priyanka	pune	3333333333	19	2	3
2	ram	kolkata	2222222222	20	2	3
1	sham	bihar	1111111111	18	2	3
4	sai	mumbai	4444444444	18	3	4
3	priyanka	pune	3333333333	19	3	4
2	ram	kolkata	2222222222	20	3	4
1	sham	bihar	1111111111	18	3	4

16 rows in set (0.02 sec)

```
mysql> select* from student2;
```

roll_no	name	address	phone	age
1	sham	bihar	1111111111	18
2	ram	kolkata	2222222222	20
3	priyanka	pune	3333333333	19
4	sai	mumbai	4444444444	18

4 rows in set (0.00 sec)

```
mysql> select a.name,b.roll_no from student2 a,student2 b where a.age<b.age order by
a.name;
```

name	roll_no
priyanka	2

sai	2
sai	3
sham	2
sham	3

5 rows in set (0.01 sec)

```
mysql> select a.name,b.roll_no from student2 a,student2 b where a.age<b.age;
```

name	roll_no
sai	2
priyanka	2
sham	2
sai	3
sham	3

5 rows in set (0.00 sec)

```
mysql> select*from student2 right join studentcourse on student2.roll_no
=studentcourse.roll_no;
```

roll_no	name	address	phone	age	cID	roll_no
1	sham	bihar	1111111111	18	1	1
2	ram	kolkata	2222222222	20	2	2
3	priyanka	pune	3333333333	19	2	3
4	sai	mumbai	4444444444	18	3	4

4 rows in set (0.00 sec)

```
mysql> create view newView as select student2.name,student2.roll_no,studentcourse.cID
from student2 left join studentcourse on student2.roll_no=studentcourse.roll_no;
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select*from newView;
```

name	roll_no	cID
sham	1	1
ram	2	2
priyanka	3	2
sai	4	3

4 rows in set (0.01 sec)

```
mysql> select *from student2 where roll_no in
-> (select roll_no from studentcourse);
```

roll_no
1
2
3
4

4 rows in set (0.00 sec)

```
mysql> select*from student2 where roll_no in(select roll_no from studentcourse where student2.age<20);
```

roll_no	name	address	phone	age
1	sham	bihar	1111111111	18
3	priyanka	pune	3333333333	19
4	sai	mumbai	4444444444	18

3 rows in set (0.01 sec)