

1.Create a view with name 'std_view' using STUDENT table which holds the value of register number, name and DOB of student.
Ans)

```
mysql> create view std_view as select regno,name,dob from student;
Query OK, 0 rows affected (0.02 sec)

mysql> select * from std_view;
```

regno	name	dob
123	bino	2022-09-08
124	reshma	2012-09-08
125	arshiya	2003-09-08
126	rakath	2004-04-21

```
4 rows in set (0.03 sec)
```

2,create an index on courseno of student and analyze the performance
Ans)

```
mysql> create index ind1 on student(courseno);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from student where courseno='c1';
```

regno	name	gender	dob	mobilen	city	courseno	minscore	maxscore	avgscore	sumscore
123	bino	m	2022-09-08	1234567891	chennai	c1	50	95	60	352
126	rakath	m	2004-04-21	917781602	kadapa	c1	50	95	60	NULL

```
2 rows in set (0.00 sec)
```

3.)EXPLAIN select * from student where courseno='c1'.
Ans)

```
mysql> EXPLAIN select * from student where courseno='c1';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | select_type | table | type | possible_keys | key | key_len | ref | rows | Extra |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | SIMPLE | student | ref | ind1 | ind1 | 6 | const | 2 | Using where |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

4.)Create a example sequence
Ans)

```
mysql> create table empl(eno integer(3) auto_increment primary key, ename varchar(20));
Query OK, 0 rows affected (0.00 sec)

mysql> > insert into empl(ename) values('kiruthik');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'insert into empl(ename) values('kiruthik');' at line 1
mysql> insert into empl(ename) values('kiruthik');
Query OK, 1 row affected (0.00 sec)

mysql> insert into empl(ename) values('shwethaa');
Query OK, 1 row affected (0.02 sec)

mysql> insert into empl(ename) values('rakath');
Query OK, 1 row affected (0.03 sec)

mysql> insert into empl(ename) values('arshiya');
Query OK, 1 row affected (0.03 sec)

mysql> select * from empl;
+-----+-----+
| eno | ename |
+-----+-----+
| 1 | kiruthik |
| 2 | shwethaa |
| 3 | rakath |
| 4 | arshiya |
+-----+-----+
4 rows in set (0.00 sec)
```