RDBMS&QUERIES

mysql> create table dept(dept_id int primary key,dept_name varchar(30) NOT NULL);
Query OK, 0 rows affected (0.09 sec)
mysql> desc dept;
Field Type Null Key Default Extra
dept_id int NO PRI NULL
dept_name varchar(30) NO NULL
++
2 rows in set (0.01 sec)
mysql> create table year(std_id int primary key,year varchar(30) NOT NULL);
Query OK, 0 rows affected (0.06 sec)
mysql> desc year;
++
Field Type Null Key Default Extra
++

mysql> create table student(std_id int primary key,sname varchar(30),year varchar(30) NOT NULL,dept_id int, FOREIGN KEY(dept_id) references dept(dept_id));

Query OK, 0 rows affected (0.11 sec)

```
mysql> insert into dept values(1,'ME');
Query OK, 1 row affected (0.02 sec)
mysql> insert into dept values(2,'CSE');
Query OK, 1 row affected (0.02 sec)
mysql> insert into dept values(3,'ME');
Query OK, 1 row affected (0.01 sec)
mysql> insert into dept values(4,'ECE');
Query OK, 1 row affected (0.01 sec)
mysql> insert into dept values(5,'EEE');
Query OK, 1 row affected (0.01 sec)
mysql> select * from dept;
+----+
| dept_id | dept_name |
+----+
    1 | ME
    2 | CSE
    3 | ME
    4 | ECE
    5 | EEE
+----+
5 rows in set (0.00 sec)
```

```
mysql> insert into year values(1,1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into year values(2,2);
Query OK, 1 row affected (0.01 sec)
mysql> insert into year values(3,3);
Query OK, 1 row affected (0.01 sec)
mysql> insert into year values(4,4);
Query OK, 1 row affected (0.01 sec)
mysql> select * from year;
+----+
| std_id | year |
+----+
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
  4 | 4 |
+----+
4 rows in set (0.00 sec)
mysql> insert into student values(1,"abc",1,1);
```

```
Query OK, 1 row affected (0.01 sec)
mysgl> insert into student values(2,"adcs",1,1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into student values(3,"xyz",1,1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into student values(4,"abc",1,2);
Query OK, 1 row affected (0.01 sec)
mysql> insert into student values(5,"abcd",1,2);
Query OK, 1 row affected (0.01 sec)
mysgl> insert into student values(6,"xyz",2,2);
Query OK, 1 row affected (0.02 sec)
mysql> insert into student values(7,"xyz",3,2);
Query OK, 1 row affected (0.01 sec)
mysql> select * from student;
+----+
| std id | sname | year | dept id |
+----+
    1 | abc | 1 |
                     1 |
   2 | adcs | 1 | 1 |
   3 | xyz | 1 |
                     1 |
   4 | abc | 1 |
                     2 |
```

```
5 | abcd | 1 | 2 |
 6 | xyz | 2 | 2 |
  7 | xyz | 3 | 2 |
+----+
7 rows in set (0.00 sec)
QUERIES:
mysql> select * from student where dept id=(select dept id from dept where
dept name='CSE');
+----+
| std_id | sname | year | dept_id |
+----+
| 4 | abc | 1 | 2 |
  5 | abcd | 1 | 2 |
| 6 | xyz | 2 | 2 |
   7 | xyz | 3 | 2 |
+----+
4 rows in set (0.00 sec)
mysql> select distinct d.dept_name from student s join dept d on
s.dept_id=d.dept_id;
+----+
| dept_name |
```

```
+----+
| ME
| CSE
+----+
2 rows in set (0.00 sec)
mysql> select s.sname,d.dept_name from student s join dept d on
s.dept_id=d.dept_id order by d.dept_name,s.sname;
+----+
| sname | dept_name |
+----+
abc | CSE |
| abcd | CSE |
| xyz | CSE |
| xyz | CSE |
|abc | ME
| adcs | ME
| xyz | ME
+----+
7 rows in set (0.00 sec)
mysql> quit
```