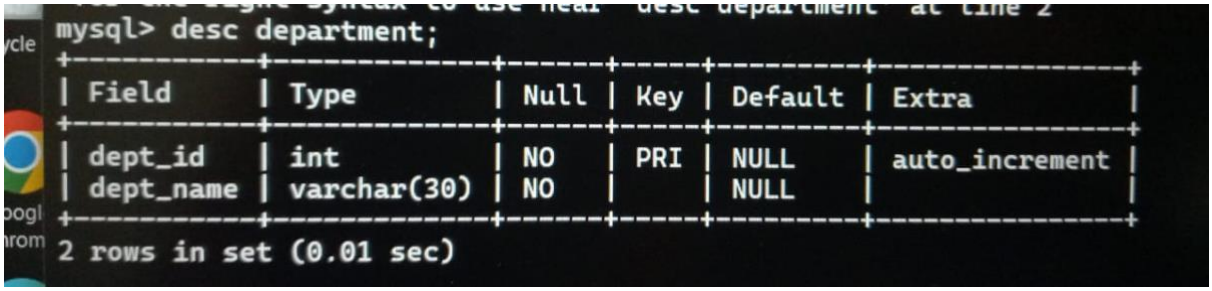


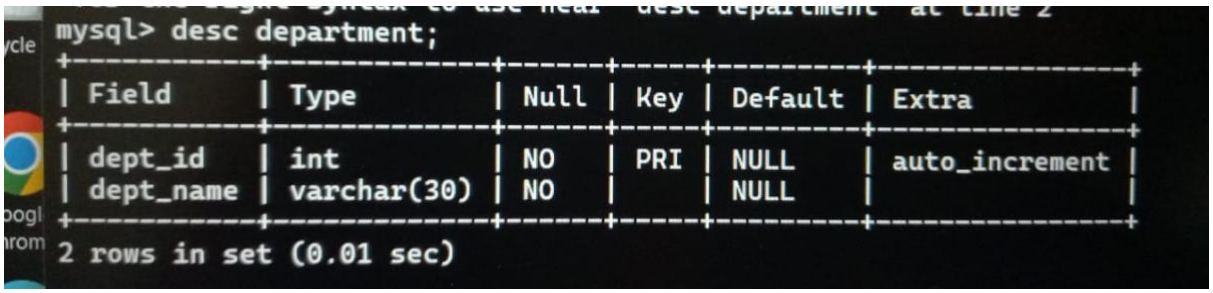
```
mysql> desc department;
+-----------+-------------+------+-----+---------+----------------+
| Field     | Type        | Null | Key | Default | Extra          |
+-----------+-------------+------+-----+---------+----------------+
| dept_id   | int         | NO   | PRI | NULL    | auto_increment |
| dept_name | varchar(30) | NO   |     | NULL    |                |
+-----------+-------------+------+-----+---------+----------------+
2 rows in set (0.01 sec)
```

DAY -3

Table creations:

DEPARTMENT TABLE AS FOLLOWS:

create table department(dept_id int auto_increment primary key,dept_name varchar(30) NOT NULL);

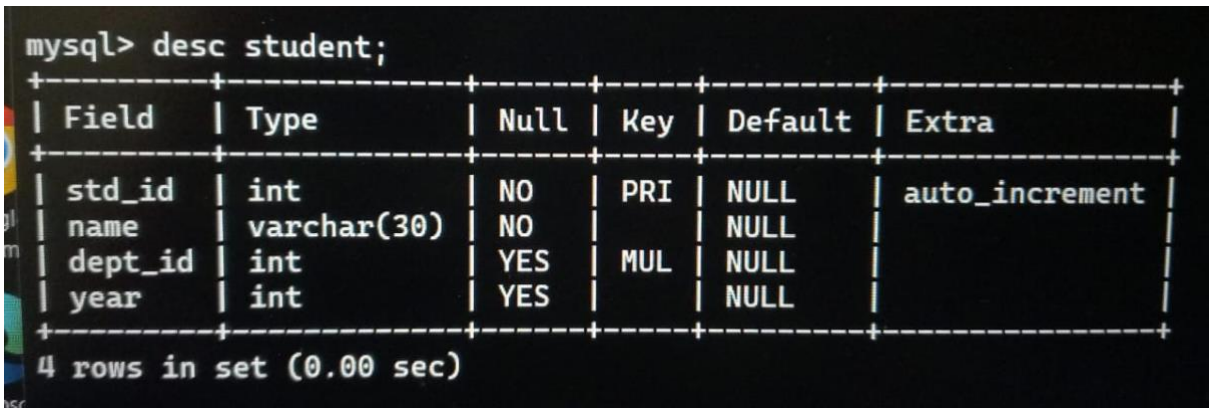


```
mysql> desc department;
+-----------+-------------+------+-----+---------+----------------+
| Field     | Type        | Null | Key | Default | Extra          |
+-----------+-------------+------+-----+---------+----------------+
| dept_id   | int         | NO   | PRI | NULL    | auto_increment |
| dept_name | varchar(30) | NO   |     | NULL    |                |
+-----------+-------------+------+-----+---------+----------------+
2 rows in set (0.01 sec)
```

STUDENT TABLE AS FOLLOWS;

create table student(std_id int auto_increment primary key,name varchar(30)NOT NULL,dept_id int,year int,FOREIGN

KEY(dept_id)references department(dept_id));

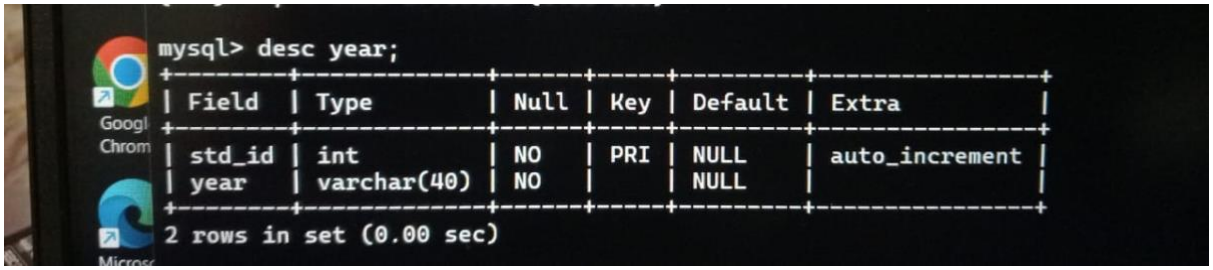


```
mysql> desc student;
+---------+-------------+------+-----+---------+----------------+
| Field   | Type        | Null | Key | Default | Extra          |
+---------+-------------+------+-----+---------+----------------+
| std_id  | int         | NO   | PRI | NULL    | auto_increment |
| name    | varchar(30) | NO   |     | NULL    |                |
| dept_id | int         | YES  | MUL | NULL    |                |
| year    | int         | YES  |     | NULL    |                |
+---------+-------------+------+-----+---------+----------------+
4 rows in set (0.00 sec)
```

YEAR TABLE AS FOLLOWS:

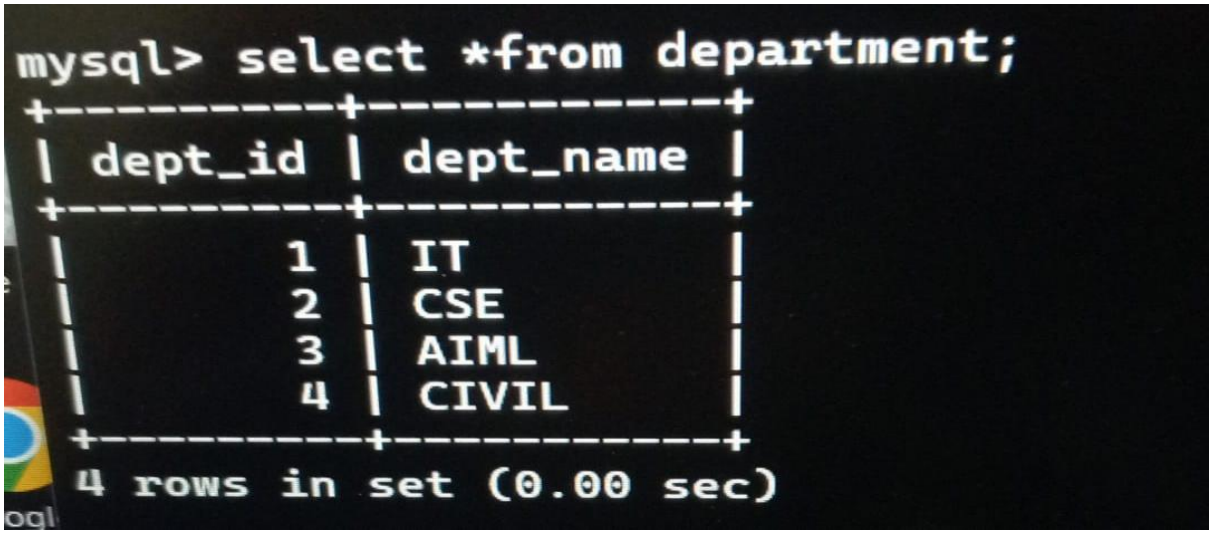
create table student(std_id int auto_increment primary key,name varchar(30)NOT NULL,dept_id int,year int,FOREIGN

KEY(dept_id)references department(dept_id));



INSERTING VALUES IN DEPT TABLE AS FOLLOWS:

insert into department(dept_name)values('IT'),('CSE'),('AIML'),('CIVIL');



INSERTING VALUES IN YEARTABLE AS FOLLOWS:

> insert into year(year)values('FIRST'),('SECOND'),('THIRD'),('FOURTH');

```
mysql> select *from year;
+---------+---------+
| std_id  | year    |
+---------+---------+
|       1 | FIRST   |
|       2 | SECOND  |
|       3 | THIRD   |
|       4 | FOURTH  |
+---------+---------+
4 rows in set (0.00 sec)
```

INSERTING VALUES IN STUDENT TABLE AS FOLLOWS:

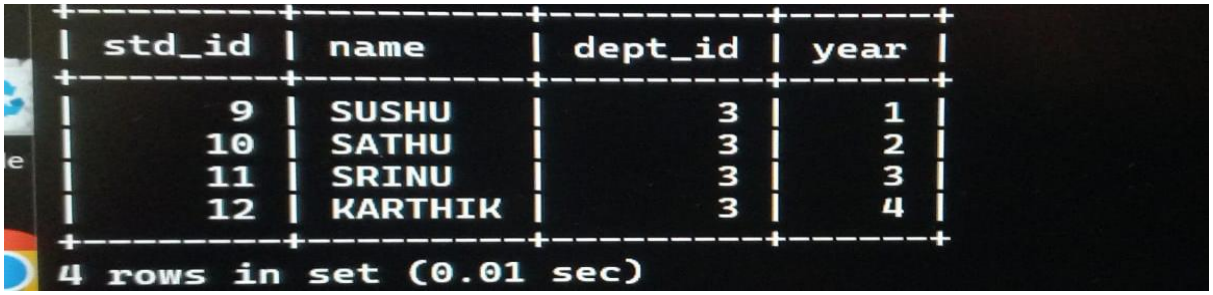
insert into student(name,dept_id,year)values('JYOSHNA',1,1),('JEEVAN',1,2),('SANJU',1,3),('SHINY',1,4),('HARSHITHA',2,1),('SWATHI',2,2),('SHASHI',2,3),('RAJ',2,4),('SUSHU',3,1),('SATHU',3,2),('SRINU',3,3),('KARTHIK',3,4),('DHEERAJ',4,1),('SANDHYA',4,2),('PRAVAILAKA',4,3),('DEVI',4,4);

```
mysql> select *from student;
+--------+-----------+---------+------+
| std_id | name      | dept_id | year |
+--------+-----------+---------+------+
|      1 | JYOSHNA   |       1 |    1 |
|      2 | JEEVAN    |       1 |    2 |
|      3 | SANJU     |       1 |    3 |
|      4 | SHINY     |       1 |    4 |
|      5 | HARSHITHA |       2 |    1 |
|      6 | SWATHI    |       2 |    2 |
|      7 | SHASHI    |       2 |    3 |
|      8 | RAJ       |       2 |    4 |
|      9 | SUSHU     |       3 |    1 |
|     10 | SATHU     |       3 |    2 |
|     11 | SRINU     |       3 |    3 |
|     12 | KARTHIK   |       3 |    4 |
|     13 | DHEERAJ   |       4 |    1 |
|     14 | SANDHYA   |       4 |    2 |
|     15 | PRAVAILAKA|       4 |    3 |
|     16 | DEVI      |       4 |    4 |
+--------+-----------+---------+------+
16 rows in set (0.00 sec)
```

QURIES :

DISPLAY STUDENTS FROM THE AIML DEPARTMNT

select *from student where dept_id=(select dept_id from department where dept_name='AIML');

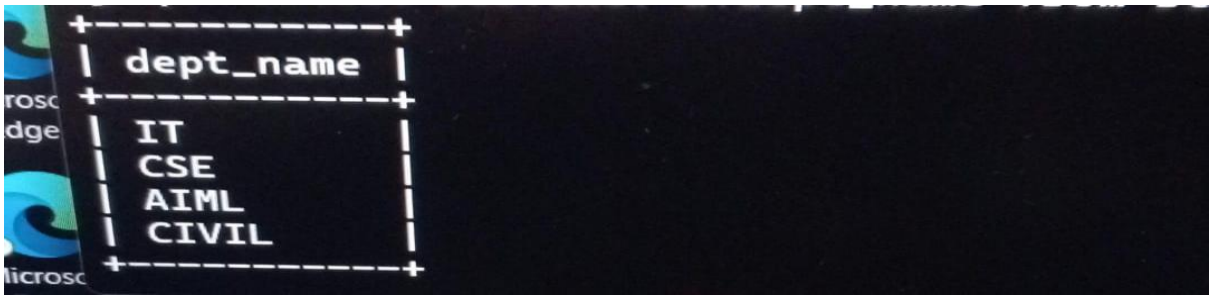


std_id	name	dept_id	year
9	SUSHU	3	1
10	SATHU	3	2
11	SRINU	3	3
12	KARTHIK	3	4

4 rows in set (0.01 sec)

DISPLAY ONLY DEPT NAME USING STUDENT TABLE

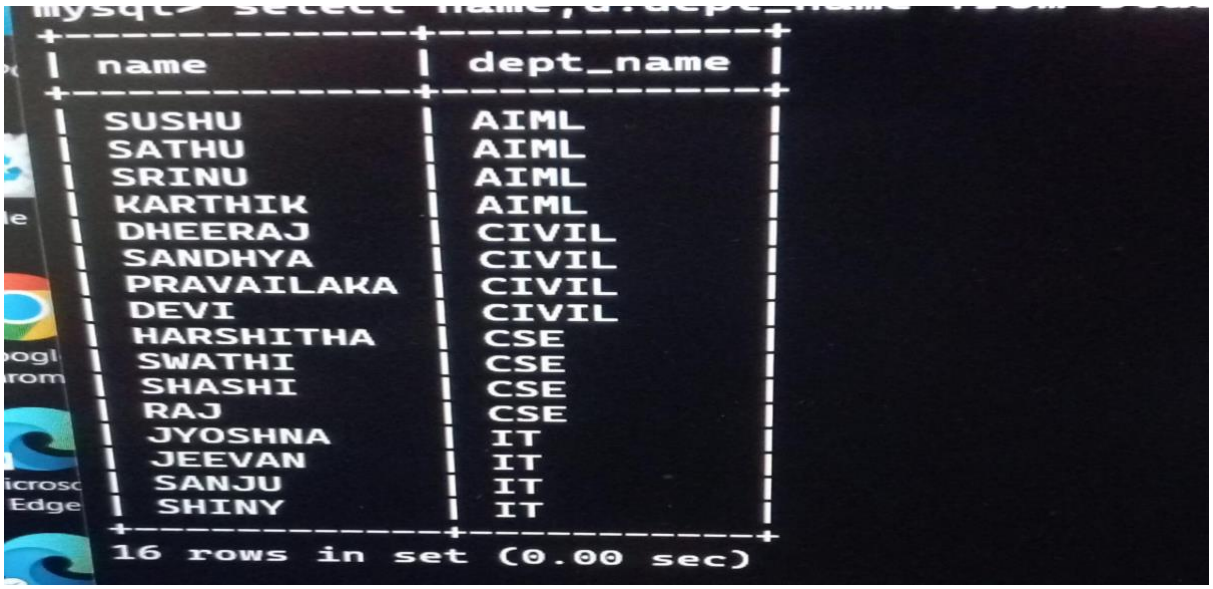
select DISTINCT d.dept_name from student s JOIN department d on s.dept_id=d.dept_id;



dept_name
IT
CSE
AIML
CIVIL

DISPLAY STUDENTS SORTED BY DEPT AND NAMES

select name,d.dept_name from student s join department d on s.dept_id=d.dept_id ORDER by d.dept_name;



name	dept_name
SUSHU	AIML
SATHU	AIML
SRINU	AIML
KARTHIK	AIML
DHEERAJ	CIVIL
SANDHYA	CIVIL
PRAVAILAKA	CIVIL
DEVI	CIVIL
HARSHITHA	CSE
SWATHI	CSE
SHASHI	CSE
RAJ	CSE
JYOSHNA	IT
JEEVAN	IT
SANJU	IT
SHINY	IT

16 rows in set (0.00 sec)