

```
mysql> create table department
-> (deptid int primary key,
-> deptname varchar(45));
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> insert into department
-> values
-> (10,'CSE'),
-> (20,'IT'),
-> (30,'ECE'),
-> (40,'MECH');
```

```
Query OK, 4 rows affected (0.02 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> select * from department;
+-----+-----+
| deptid | deptname |
+-----+-----+
|    10 | CSE   |
|    20 | IT    |
|    30 | ECE   |
|    40 | MECH  |
+-----+-----+
4 rows in set (0.00 sec)
```

MySQL 8.0 Command Line Cli X + v

Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.44 MySQL Community Server - GPL

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

```
mysql> use college;  
Database changed  
mysql> ALTER TABLE STUDENT1  
    -> ADD COLUMN DEPTID INT;  
Query OK, 0 rows affected (0.04 sec)  
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 10 WHERE NAME = 'ARJUN';  
Query OK, 1 row affected (0.02 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 10 WHERE NAME = 'VISHWA';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 20 WHERE NAME = 'SARAN';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 30 WHERE NAME = 'G CHAITANYA';  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 20 WHERE NAME = 'VIGNESVAR';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 30 WHERE NAME = 'RAVI';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE STUDENT1 SET DEPTID = 40 WHERE NAME = 'RAHUL';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select name,marks,deptname
-> from student1 as s1
-> inner join department d
-> where s1.deptid=d.deptid;
```

```
+-----+-----+-----+
| name      | marks | deptname |
+-----+-----+-----+
| ARJUN     |    85 | CSE      |
| SARAN     |    88 | IT       |
| VISHWA    |    92 | CSE      |
| G CHAITANYA | 95 | ECE      |
| VIGNESHVAR |   89 | IT       |
| RAVI      |    80 | ECE      |
| RAHUL     |    82 | MECH     |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select * from
-> ^C
```

```
mysql> select name
-> from student s1,department d
-> where s1.deptid=d.deptid;
```

```
ERROR 1054 (42S22): Unknown column 's1.deptid' in 'where clause'
```

```
mysql> select name
-> from student1 s1,department d
-> where s1.deptid=d.deptid;
```

```
+-----+
| name      |
+-----+
| ARJUN     |
| SARAN     |
| VISHWA    |
| G CHAITANYA |
| VIGNESHVAR |
| RAVI      |
| RAHUL     |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> SELECT s1.name, s1.marks, d.deptname  
-> FROM student1 AS s1  
-> LEFT JOIN department AS d  
-> ON s1.deptid = d.deptid;
```

name	marks	deptname
ARJUN	85	CSE
GANESH	90	NULL
SARAN	88	IT
VISHWA	92	CSE
G CHAITANYA	95	ECE
VIGNESVAR	89	IT
RAVI	80	ECE
RAHUL	82	MECH

8 rows in set (0.01 sec)

```
mysql> SELECT s1.name, s1.marks, d.deptname  
-> FROM student1 AS s1  
-> RIGHT JOIN department AS d  
-> ON s1.deptid = d.deptid;
```

name	marks	deptname
VISHWA	92	CSE
ARJUN	85	CSE
VIGNESVAR	89	IT
SARAN	88	IT
RAVI	80	ECE
G CHAITANYA	95	ECE
RAHUL	82	MECH

7 rows in set (0.00 sec)