

```
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)
```

```
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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owners.

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 = 'VIGNESHVAR';
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
VIGNESHVAR	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
VIGNESHVAR	89	IT
SARAN	88	IT
RAVI	80	ECE
G CHAITANYA	95	ECE
RAHUL	82	MECH

7 rows in set (0.00 sec)