

```
mysql> show tables;
```

Tables_in_vedant
department
marks
student

```
3 rows in set (0.01 sec)
```

```
mysql> select * from student;
```

id	name	address	dept_id
100	vedant vijay hule	mumbai	20
101	mansi	ahilyanagar	20
102	arshad	beed	20
103	chinmay	ahilyanagar	20
104	manas	pune	21
105	jayosmit	mumbai	21

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

```
mysql> select * from department;
```

dept_id	dept_name	fees
20	Computer Engineering	80000
21	Information Technology	75000

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

```
mysql> select * from marks;
```

student_id	subject	marks
100	Maths	85
101	Maths	90
102	Maths	72
103	Maths	80
104	Maths	88
105	Maths	75

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

```
mysql> SELECT s.id, s.name, d.dept_name, m.subject, m.marks
-> FROM student s
-> INNER JOIN department d ON s.dept_id = d.dept_id
-> INNER JOIN marks m ON s.id = m.student_id;
```

id	name	dept_name	subject	marks
100	vedant vijay hule	Computer Engineering	Maths	85
101	mansi	Computer Engineering	Maths	90
102	arshad	Computer Engineering	Maths	72
103	chinmay	Computer Engineering	Maths	80
104	manas	Information Technology	Maths	88
105	jayosmit	Information Technology	Maths	75

6 rows in set (0.01 sec)

```
mysql> SELECT s.id, s.name, d.dept_name, m.subject, m.marks
-> FROM student s
-> LEFT JOIN department d ON s.dept_id = d.dept_id
-> LEFT JOIN marks m ON s.id = m.student_id;
```

id	name	dept_name	subject	marks
100	vedant vijay hule	Computer Engineering	Maths	85
101	mansi	Computer Engineering	Maths	90
102	arshad	Computer Engineering	Maths	72
103	chinmay	Computer Engineering	Maths	80
104	manas	Information Technology	Maths	88
105	jayosmit	Information Technology	Maths	75

6 rows in set (0.00 sec)

```
mysql> SELECT s.id, s.name, d.dept_name, m.subject, m.marks
-> FROM student s
-> RIGHT JOIN department d ON s.dept_id = d.dept_id
-> RIGHT JOIN marks m ON s.id = m.student_id;
```

id	name	dept_name	subject	marks
100	vedant vijay hule	Computer Engineering	Maths	85
101	mansi	Computer Engineering	Maths	90
102	arshad	Computer Engineering	Maths	72
103	chinmay	Computer Engineering	Maths	80

103	chinmay	Computer Engineering	Maths	80
104	manas	Information Technology	Maths	88
105	jayosmit	Information Technology	Maths	75

6 rows in set (0.00 sec)

```
mysql> SELECT s.id, s.name, d.dept_name, m.subject, m.marks
-> FROM student s
-> LEFT JOIN department d ON s.dept_id = d.dept_id
-> LEFT JOIN marks m ON s.id = m.student_id
->
-> UNION
->
-> SELECT s.id, s.name, d.dept_name, m.subject, m.marks
-> FROM student s
-> RIGHT JOIN department d ON s.dept_id = d.dept_id
-> RIGHT JOIN marks m ON s.id = m.student_id;
```

id	name	dept_name	subject	marks
100	vedant vijay hule	Computer Engineering	Maths	85
101	mansi	Computer Engineering	Maths	90
102	arshad	Computer Engineering	Maths	72
103	chinmay	Computer Engineering	Maths	80
104	manas	Information Technology	Maths	88
105	jayosmit	Information Technology	Maths	75

6 rows in set (0.00 sec)

```
mysql> SELECT s.name AS student_name, d.dept_name, m.subject
-> FROM student s
-> CROSS JOIN department d
-> CROSS JOIN marks m;
```

student_name	dept_name	subject
jayosmit	Computer Engineering	Maths
jayosmit	Information Technology	Maths
manas	Computer Engineering	Maths
manas	Information Technology	Maths
chinmay	Computer Engineering	Maths
chinmay	Information Technology	Maths
arshad	Computer Engineering	Maths
arshad	Information Technology	Maths