```
mysql> show tables;
 Tables_in_vedant
 department
 marks
  student
3 rows in set (0.01 sec)
mysql> select * from student;
                                          | dept_id
                             address
  id
       l name
   100 | vedant vijay hule | mumbai
                                                 20
                              ahilyanagar
   101 | mansi
                                                 20
   102 | arshad
                             beed
                                                 20
   103 | chinmay
                              ahilyanagar
                                                 20
   104 | manas
                              pune
                                                 21
                             mumbai
   105 l
        jayosmit
                                                 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
               Maths
         100 l
                             85
         101
               Maths
                             90
               Maths
         102
                             72
         103
               Maths
                             80
         104
               Maths
                            88
               Maths
                             75
         105
 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
100 101 102 103 104 105	vedant vijay hule mansi arshad chinmay manas jayosmit	Computer Engineering Computer Engineering Computer Engineering Computer Engineering Information Technology Information Technology	Maths Maths Maths Maths Maths	85 90 72 80 88 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 Computer Engineering Computer Engineering Computer Engineering Information Technology Information Technology	Maths	85
101	mansi		Maths	90
102	arshad		Maths	72
103	chinmay		Maths	80
104	manas		Maths	88
105	jayosmit		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 Computer Engineering Computer Engineering Computer Engineering	Maths	85
101	mansi		Maths	90
102	arshad		Maths	72
103	chinmay		Maths	80

```
MySQL 8.0 Command Line Cli X
        chinmay
                             Computer Engineering
                                                       Maths
                                                                     80
   103
                             Information Technology
   104
         manas
                                                       Maths
                                                                     88
   105
        javosmit
                             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
                             dept_name
                                                      subject
                                                                 marks
       l name
   100
        vedant vijay hule
                             Computer Engineering
                                                       Maths
                                                                     85
                             Computer Engineering
   101
         mansi
                                                       Maths
                                                                     90
         arshad
   102
                             Computer Engineering
                                                       Maths
                                                                     72
                             Computer Engineering
   103
        chinmay
                                                       Maths
                                                                     80
                             Information Technology
   104
        manas
                                                       Maths
                                                                     88
                             Information Technology | Maths
   105
        iavosmit
                                                                     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;
                                                subject
  student name
                      dept_name
  javosmit
                      Computer Engineering
                                                Maths
 jayosmit
                      Information Technology
                                                Maths
                      Computer Engineering
                                                Maths
 manas
                      Information Technology
                                                Maths
 manas
                      Computer Engineering
 chinmay
                                                Maths
 chinmav
                      Information Technology
                                                Maths
  arshad
                      Computer Engineering
                                                Maths
                      Information Technology
  arshad
                                                Maths
```