Database Management system

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Join operations in mysql:

*Inner join   *Right join   *Left join   *Full join

```
mysql> select*from studentcourse;
+----------+---------+
| courseid | roolnum |
+----------+---------+
|        1 |       1 |
|        2 |       2 |
|        2 |       3 |
|        3 |       4 |
|        1 |       5 |
|        4 |       9 |
|        5 |      10 |
|        4 |      11 |
+----------+---------+
8 rows in set (0.00 sec)

mysql> select studentcourse.courseid,student.name,student.age from student inner join studentcourse on student.rollnum=studentcourse.rollnum;
ERROR 1054 (42S22): Unknown column 'studentcourse.rollnum' in 'on clause'
mysql> select studentcourse.courseid,student.name,student.age from student inner join studentcourse on student.rollnum=studentcourse.roolnum;
+----------+----------+-----+
| courseid | name     | age |
+----------+----------+-----+
|        1 | Harsh    |  18 |
|        2 | pratik   |  19 |
|        2 | riyanka  |  20 |
|        3 | deep     |  18 |
|        1 | saptarhi |  19 |
+----------+----------+-----+
5 rows in set (0.00 sec)

mysql> select student.name,studentcourse.courseid from student left join studentcourse on studentcourse.roolnum=student.rollnum;
+----------+----------+
| name     | courseid |
+----------+----------+
| Harsh    |        1 |
| pratik   |        2 |
| riyanka  |        2 |
| deep     |        3 |
| saptarhi |        1 |
| dhanraj  |     NULL |
| rohit    |     NULL |
| niraj    |     NULL |
+----------+----------+
```

```
+----------+----------+-----+
| courseid | name     | age |
+----------+----------+-----+
|        1 | Harsh    |  18 |
|        2 | pratik   |  19 |
|        2 | riyanka  |  20 |
|        3 | deep     |  18 |
|        1 | saptarhi |  19 |
+----------+----------+-----+
5 rows in set (0.00 sec)

mysql> select student.name,studentcourse.courseid from student left join studentcourse on studentcourse.roolnum=student.rollnum;
+----------+----------+
| name     | courseid |
+----------+----------+
| Harsh    |        1 |
| pratik   |        2 |
| riyanka  |        2 |
| deep     |        3 |
| saptarhi |        1 |
| dhanraj  |     NULL |
| rohit    |     NULL |
| niraj    |     NULL |
+----------+----------+
8 rows in set (0.00 sec)

mysql> select student.name,studentcourse.courseid from student right join studentcourse on studentcourse.roolnu
+----------+----------+
| name     | courseid |
+----------+----------+
| Harsh    |        1 |
| pratik   |        2 |
| riyanka  |        2 |
| deep     |        3 |
| saptarhi |        1 |
| NULL     |        4 |
| NULL     |        5 |
| NULL     |        4 |
+----------+----------+
8 rows in set (0.00 sec)
```