

# Joins

## Student table

```
mysql> select*from student;
+-----+-----+-----+
| Roll_NO | StuName      | Marks |
+-----+-----+-----+
| 1       | Ayush Singh  | 500   |
| 2       | Vikas Singh  | 300   |
| 3       | Rahul Singh  | 330   |
| 4       | Rajat Singh  | 335   |
| 5       | Sneha        | 400   |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

## Student project table

```
mysql> select*from project;
+-----+-----+-----+
| Pr_No | project        | Roll_NO |
+-----+-----+-----+
| 1     | Sales_Data     | 2       |
| 2     | Sale_Report    | 1       |
| 3     | Data_Report    | 1       |
| 4     | Purchase_Report | 3       |
| 5     | Analysis_Report | 2       |
| 6     | topper_Report  | 2       |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

# Inner join

```
mysql> select * from student, project
-> where student.Roll_No = project.Roll_No;
```

Roll_NO	StuName	Marks	Pr_No	project	Roll_NO
1	Ayush Singh	500	2	Sale_Report	1
1	Ayush Singh	500	3	Data_Report	1
2	Vikas Singh	300	1	Sales_Data	2
2	Vikas Singh	300	5	Analysis_Report	2
2	Vikas Singh	300	6	topper_Report	2
3	Rahul Singh	330	4	Purchase_Report	3

6 rows in set (0.00 sec)

```
mysql> select * from student inner join project on Student.Roll_No = Project.Roll_No;
```

Roll_NO	StuName	Marks	Pr_No	project	Roll_NO
1	Ayush Singh	500	2	Sale_Report	1
1	Ayush Singh	500	3	Data_Report	1
2	Vikas Singh	300	1	Sales_Data	2
2	Vikas Singh	300	5	Analysis_Report	2
2	Vikas Singh	300	6	topper_Report	2
3	Rahul Singh	330	4	Purchase_Report	3

6 rows in set (0.00 sec)

```
mysql> select Student.Roll_No, StuName, project from student join project on student.Roll_No = Project.Roll_No;
```

Roll_No	StuName	project
1	Ayush Singh	Sale_Report
1	Ayush Singh	Data_Report
2	Vikas Singh	Sales_Data
2	Vikas Singh	Analysis_Report
2	Vikas Singh	topper_Report
3	Rahul Singh	Purchase_Report

6 rows in set (0.01 sec)

## Left join

```
mysql> select student.Roll_No, StuName, Project from Student left join project on student.Roll_No = project.Roll_No;
```

Roll_No	StuName	Project
1	Ayush Singh	Sale_Report
1	Ayush Singh	Data_Report
2	Vikas Singh	Sales_Data
2	Vikas Singh	Analysis_Report
2	Vikas Singh	topper_Report
3	Rahul Singh	Purchase_Report
4	Rajat Singh	NULL
5	Sneha	NULL

## Right join

```
mysql> select student.Roll_No, StuName,Project from student Right Join project on Student.Roll_No = Project.Roll_No;
```

Roll_No	StuName	Project
2	Vikas Singh	Sales_Data
1	Ayush Singh	Sale_Report
1	Ayush Singh	Data_Report
3	Rahul Singh	Purchase_Report
2	Vikas Singh	Analysis_Report
2	Vikas Singh	topper_Report

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