

JOINS

Combining tables in a vertical manner was done with set operations (combining records from two tables)

Now we will see how to combine in a horizontal manner, (columns will be joined between two tables and similar rows can be synced)

I am attaching resources below that will contain theory on joins and syntax, used that to attempt queries for your lab 6 assignment. (all links are googlable, you can also refer to any other link as long as it helps you run queries correctly)

https://www.w3schools.com/mysql/mysql_join.asp

<https://www.guru99.com/joins.html>

<https://phoenixnap.com/kb/mysql-join>

Important key points to read about :

- How is joins done
- Joins with no referenced column
- Joins with referenced column
- Types of joins
- Joins syntax specific to mysql
- How to reference columns from specific table when joining more than one table
- How to give an alias to joining tables
- Relate how the concept of foreign keys is useful to us here
- Self join
- Filling of Empty spaces

Queries

Note - Question 1-3 are not wrong, the type of join required can be determined based on the data or requirements of the question, so see which is the most apt. Verify your answers by manually checking it out.

1. Recreate the original student table using joins

name	rollno	dob	yjoin	gender	team	cid	rollno	math	sci	eng	social	sports
dwayne	33	2000-01-09	2019	M	R	109	33	98	94	91	96	55
john	58	2002-03-21	2019	M	W	101	58	70	87	77	98	67
dave	27	1999-09-11	2018	M	A	110	27	54	68	98	96	77
randy	56	2001-04-28	2019	M	R	104	56	69	75	65	67	98
kane	11	1999-02-13	2018	M	G	104	11	86	95	52	57	73
tom	50	2000-11-01	2019	M	W	101	50	76	84	62	74	81
carol	7	2000-06-19	2018	F	W	113	7	78	99	45	56	88
wanda	21	2001-08-10	2019	F	R	107	21	42	73	59	63	65
natasha	52	2001-06-19	2019	F	A	109	52	83	86	89	91	99
gamora	34	2001-06-19	2018	F	G	109	34	84	93	79	94	85
jean	46	2000-06-19	2019	F	G	110	46	98	97	84	87	72

2. Show only name and sports score from sem1 of all students
3. Show name,math marks, roll no of students who study in a campus offering law.
4. Write left join and right join queries on campus and student table. In the output file simply mention the difference in rows you encountered and what did you see in the extra row for certain columns. Try to understand why that happened.

Deadline - 18th Oct 2021 11:59pm