**JOINS**

1. **INNER JOIN,**
2. **OUTER JOIN**

* **LEFT OUTER JOIN**
* **RIGHT OUTER JOIN**
* **CROSS JOIN**

**Enter password: \*\*\*\*\*\*\*\*\***

**Welcome to the MySQL monitor. Commands end with ; or \g.**

**Your MySQL connection id is 12**

**Server version: 8.0.30 MySQL Community Server - GPL**

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**owners.**

**Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.**

**mysql> create database student;**

**Query OK, 1 row affected (0.07 sec)**

**mysql> use student;**

**Database changed**

**mysql> create table teachers(id int, joiningdate varchar(50), Name varchar(40), Age int,city varchar(50));**

**Query OK, 0 rows affected (0.90 sec)**

**mysql> insert into teachers(id,joiningdate, Name, Age, City)values(1,'24-10-2020','Ramya S',25,'chennai'),(2,'23-10-2021','Priyadharshini S',26,'Chengalpet'),(3,'25-05-2023','Vishali S',29,'chennai'),(4,'30-06-2025','Vijaya S',30,'madhurandhagam'),(5,'30-06-2023','hemasri S',28,'madhurandhagam');**

**Query OK, 5 rows affected (0.08 sec)**

**Records: 5 Duplicates: 0 Warnings: 0**

**mysql> select\*from teachers;**

**+------+-------------+------------------+------+----------------+**

**| id | joiningdate | Name | Age | city |**

**+------+-------------+------------------+------+----------------+**

**| 1 | 24-10-2020 | Ramya S | 25 | chennai |**

**| 2 | 23-10-2021 | Priyadharshini S | 26 | Chengalpet |**

**| 3 | 25-05-2023 | Vishali S | 29 | chennai |**

**| 4 | 30-06-2025 | Vijaya S | 30 | madhurandhagam |**

**| 5 | 30-06-2023 | hemasri S | 28 | madhurandhagam |**

**+------+-------------+------------------+------+----------------+**

**5 rows in set (0.00 sec)**

**mysql> create table staffs(id int,department varchar(40),managername varchar(50));**

**Query OK, 0 rows affected (0.20 sec)**

**mysql> insert into staffs(id, department,managername)values(1,'maths','kajol S'),(2,'Physics','Rudhra M'),(3,'chemistry','Adhisaya S'),(4,'biology','priya S'),(6,'zoology','hemasri'),(8,'english','vijaya');**

**Query OK, 6 rows affected (0.07 sec)**

**Records: 6 Duplicates: 0 Warnings: 0**

**mysql> select\*from staffs;**

**+------+------------+-------------+**

**| id | department | managername |**

**+------+------------+-------------+**

**| 1 | maths | kajol S |**

**| 2 | Physics | Rudhra M |**

**| 3 | chemistry | Adhisaya S |**

**| 4 | biology | priya S |**

**| 6 | zoology | hemasri |**

**| 8 | english | vijaya |**

**+------+------------+-------------+**

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

**mysql> SELECT teachers.id,teachers.Name,teachers.city,staffs.department,staffs.managername FROM teachers INNER JOIN staffs ON teachers.id = staffs.id;**

**+------+------------------+----------------+------------+-------------+**

**| id | Name | city | department | managername |**

**+------+------------------+----------------+------------+-------------+**

**| 1 | Ramya S | chennai | maths | kajol S |**

**| 2 | Priyadharshini S | Chengalpet | Physics | Rudhra M |**

**| 3 | Vishali S | chennai | chemistry | Adhisaya S |**

**| 4 | Vijaya S | madhurandhagam | biology | priya S |**

**+------+------------------+----------------+------------+-------------+**

**4 rows in set (0.00 sec)**

**mysql> SELECT teachers.id,teachers.Name,teachers.city,staffs.department,staffs.managername FROM teachers LEFT OUTER JOIN staffs ON teachers.id = staffs.id;**

**+------+------------------+----------------+------------+-------------+**

**| id | Name | city | department | managername |**

**+------+------------------+----------------+------------+-------------+**

**| 1 | Ramya S | chennai | maths | kajol S |**

**| 2 | Priyadharshini S | Chengalpet | Physics | Rudhra M |**

**| 3 | Vishali S | chennai | chemistry | Adhisaya S |**

**| 4 | Vijaya S | madhurandhagam | biology | priya S |**

**| 5 | hemasri S | madhurandhagam | NULL | NULL |**

**+------+------------------+----------------+------------+-------------+**

**5 rows in set (0.06 sec)**

**mysql> SELECT teachers.id,teachers.Name,teachers.city,staffs.department,staffs.managername FROM teachers RIGHT OUTER JOIN staffs ON teachers.id = staffs.id;**

**+------+------------------+----------------+------------+-------------+**

**| id | Name | city | department | managername |**

**+------+------------------+----------------+------------+-------------+**

**| 1 | Ramya S | chennai | maths | kajol S |**

**| 2 | Priyadharshini S | Chengalpet | Physics | Rudhra M |**

**| 3 | Vishali S | chennai | chemistry | Adhisaya S |**

**| 4 | Vijaya S | madhurandhagam | biology | priya S |**

**| NULL | NULL | NULL | zoology | hemasri |**

**| NULL | NULL | NULL | english | vijaya |**

**+------+------------------+----------------+------------+-------------+**

**6 rows in set (0.04 sec)**

**mysql> SELECT teachers.id,teachers.Name,teachers.city,staffs.department,staffs.managername FROM teachers FULL OUTER JOIN staffs ON teachers.id = staffs.id;**

**ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'OUTER JOIN staffs ON teachers.id = staffs.id' at line 1**

**mysql> SELECT teachers.id,teachers.Name,teachers.city,staffs.department,staffs.managername**

**-> FROM teachers**

**-> FULL OUTER JOIN staffs**

**-> ON teachers.id = staffs.id;**

**ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'OUTER JOIN staffs**

**ON teachers.id = staffs.id' at line 3**

**mysql> SELECT teachers.id,teachers.joiningdate,teachers.Name,teachers.city,teachers.Age,staffs.department,staffs.managername FROM teachers FULL OUTER JOIN staffs ON teachers.id = staffs.id;**

**ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'OUTER JOIN staffs ON teachers.id = staffs.id' at line 1**

**mysql> SELECT teachers.id,teachers.joiningdate,teachers.Name,teachers.city,teachers.Age,staffs.department,staffs.managername FROM teachers CROSS JOIN staffs ON teachers.id = staffs.id;**

**+------+-------------+------------------+----------------+------+------------+-------------+**

**| id | joiningdate | Name | city | Age | department | managername |**

**+------+-------------+------------------+----------------+------+------------+-------------+**

**| 1 | 24-10-2020 | Ramya S | chennai | 25 | maths | kajol S |**

**| 2 | 23-10-2021 | Priyadharshini S | Chengalpet | 26 | Physics | Rudhra M |**

**| 3 | 25-05-2023 | Vishali S | chennai | 29 | chemistry | Adhisaya S |**

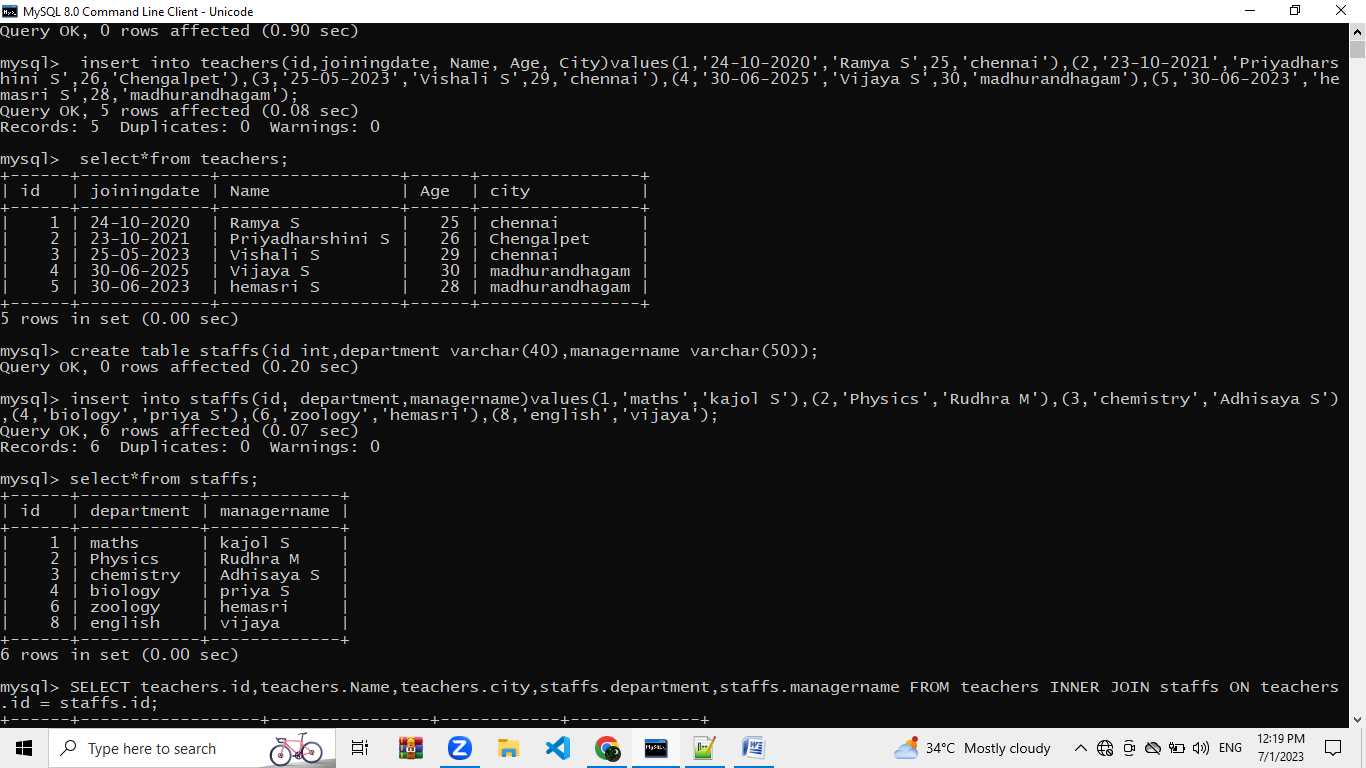
**| 4 | 30-06-2025 | Vijaya S | madhurandhagam | 30 | biology | priya S |**

**+------+-------------+------------------+----------------+------+------------+-------------+**

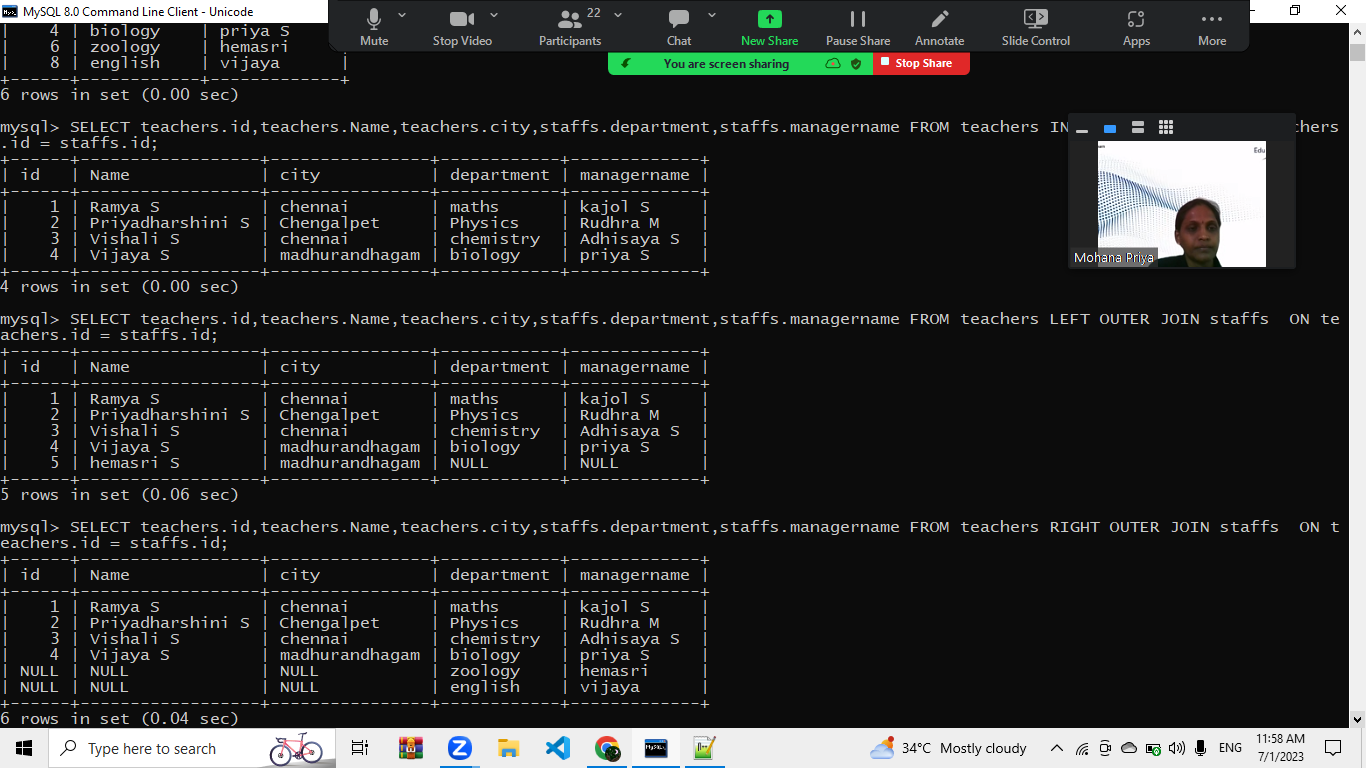
**4 rows in set (0.05 sec)**

**mysql> SELECT teachers.id,teachers.joiningdate,teachers.Name,teachers.city,teachers.Age,staffs.department,staffs.managername FROM teachers CROSS JOIN staffs ON teachers;**

***CREATING & INSERTING THE VALUES IN TWO TABLES***

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**INNERJOIN, LEFT OUTERJOIN, RIGHT OUTERJOIN**

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