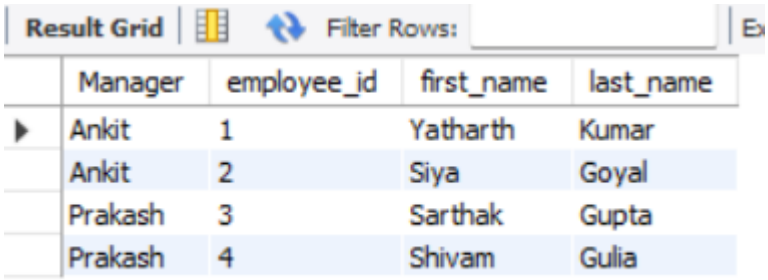
```
-- Creating manager table
CREATE TABLE manager (
   manager_id INT PRIMARY KEY AUTO_INCREMENT,
   manager_name VARCHAR(50) NOT NULL
);

-- Creating employee table
CREATE TABLE employee (
   employee_id INT PRIMARY KEY AUTO_INCREMENT,
   first_name VARCHAR(50) NOT NULL,
   last_name VARCHAR(50) NOT NULL,
   manager_id INT,
   FOREIGN KEY (manager_id) REFERENCES manager(manager_id) ON DELETE SET NULL
);


-- Inserting managers
INSERT INTO manager (manager_name) VALUES
('Ankit'),
('Prakash');

-- Inserting employees
INSERT INTO employee (first_name, last_name, manager_id) VALUES
('Yatharth', 'Kumar', 1),
('Siya', 'Goyal', 1),
('Sarthak', 'Gupta', 2),
('Shivam', 'Gulia', 2),
('Yamini','Singh',null); -- not assigned to any manager


-- Displaying manager table
```

```
select * from manager;


-- Displaying employee table
select * FROM employee;


-- 1. getting all employee under each manager
SELECT
    Manager.manager_name AS Manager,
    Employee.employee_id,
    Employee.first_name,
    Employee.last_name
FROM
    Manager
JOIN
    Employee ON Manager.manager_id = Employee.manager_id
ORDER BY
    Manager.manager_name;
```

Output:



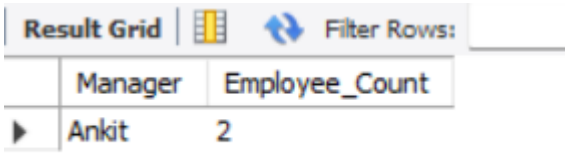
Result Grid | Filter Rows:

Manager	employee_id	first_name	last_name
Ankit	1	Yatharth	Kumar
Ankit	2	Siya	Goyal
Prakash	3	Sarthak	Gupta
Prakash	4	Shivam	Gulia

```
-- 2. getting how many employees come under any manager
SELECT
    Manager.manager_name AS Manager,
    COUNT(Employee.employee_id) AS Employee_Count
FROM
    Manager
```

```
LEFT JOIN
    Employee ON Manager.manager_id = Employee.manager_id
WHERE
    Manager.manager_name = 'Ankit'
GROUP BY
    Manager.manager_name;
```

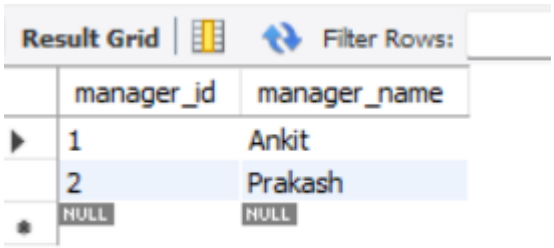
Output:



Manager	Employee_Count
Ankit	2

```
-- 3. get all manager details
select * from manager;
```

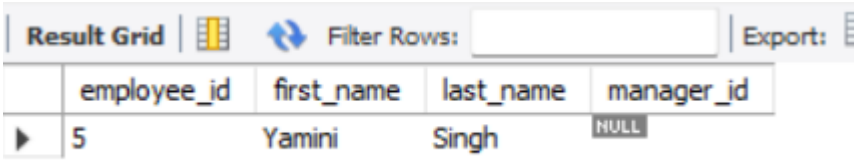
Output:



manager_id	manager_name
1	Ankit
2	Prakash
NULL	NULL

```
-- 4. find any employee is there who has not been assigned to any manager
SELECT e.*
FROM Employee e
LEFT JOIN Manager m ON e.manager_id = m.manager_id
WHERE e.manager_id IS NULL;
```

Output:



Result Grid | Filter Rows: | Export:

employee_id	first_name	last_name	manager_id
5	Yamini	Singh	NULL

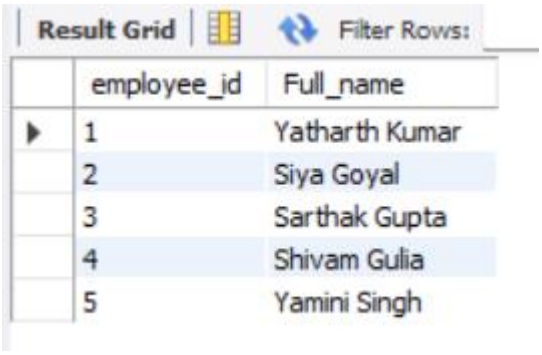
-- 5. write a function to get fullname (first_name+last_name)

```
DELIMITER $$
CREATE FUNCTION get_fullname(first_name VARCHAR(50), last_name VARCHAR(50))
RETURNS VARCHAR(100)
DETERMINISTIC
BEGIN
   RETURN CONCAT(first_name, ' ', last_name);
END$$
DELIMITER ;
```

-- getting employees with full name using the function that I have created above

```
SELECT employee_id,get_fullname(first_name, last_name) AS Full_name FROM Employee;
```

Output:



Result Grid | Filter Rows:

employee_id	Full_name
1	Yatharth Kumar
2	Siya Goyal
3	Sarthak Gupta
4	Shivam Gulia
5	Yamini Singh