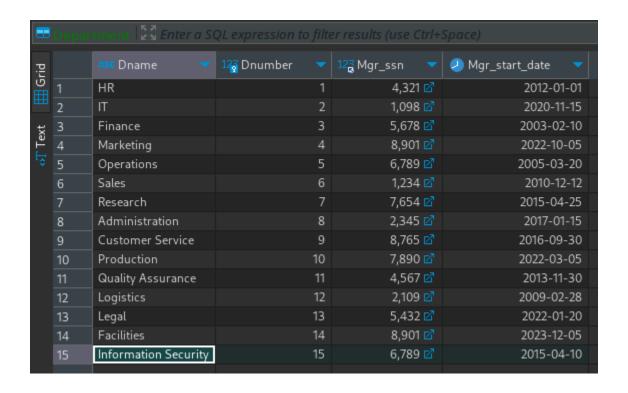
Assignment 2 CSC613

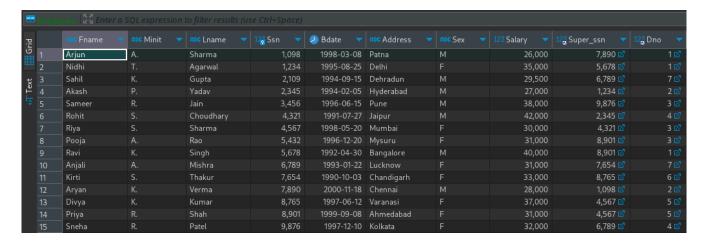
Name: Maharshi Basu

Reg. No: 708

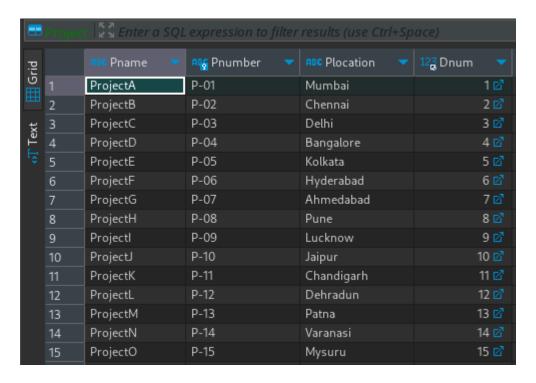
DATASETS:



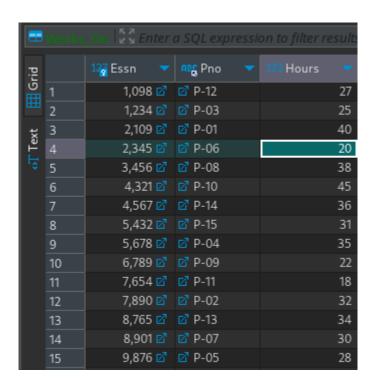
Department Dataset



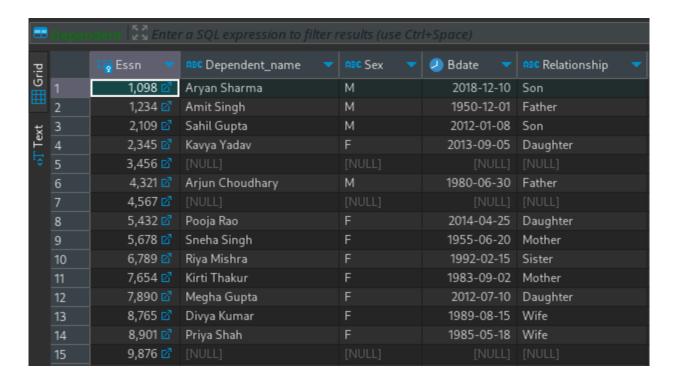
Employee Dataset



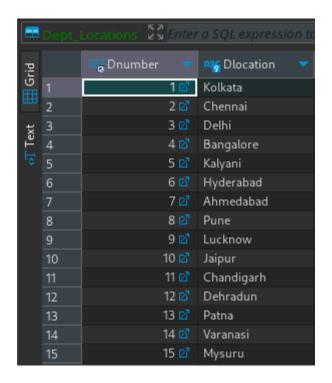
Project Dataset



Works_On Dataset



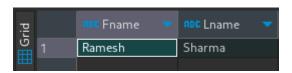
Dependent Dataset



Dept_Locations Dataset

Q1. Find the male employees whose first name contains "esh" at the end and work in project either "P-01" or "P-05".

```
> SELECT E.`Fname`, E.`Lname`
FROM Employee E
JOIN
`Department` D ON E.`Dno` = D.`Dnumber`
JOIN
`Project` P ON D.`Dnumber` = P.`Dnum`
WHERE
E.Fname LIKE '%esh' AND
(P.`Pnumber` = 'P-01' OR P.Pnumber = 'P-05') AND E.Sex = 'M';
```



Q2. Find the youngest ten employees in the organization whose working location is "Delhi".

```
> SELECT E.Fname, E.Lname
FROM Employee E
JOIN
Department D ON E.Dno = D.Dnumber
JOIN
Dept_Locations DL ON DL.Dnumber = D.Dnumber
WHERE DL.Dlocation = 'Delhi'
ORDER BY DATEDIFF(CURDATE(), E.Bdate)
LIMIT 10;
```



Q3. Find the name of the manager(s) who supervises the maximum number of employees in the organization.

>

```
SELECT E.Fname, E.Lname
FROM Employee E
JOIN
Department D ON E.Dno = D.Dnumber
GROUP BY E.Dno
HAVING COUNT(*) = (
    SELECT COUNT(*)
    FROM Employee E2
    JOIN Department D2 ON E2.Dno = D2.Dnumber
    GROUP BY E2.Dno
    ORDER BY COUNT(*) DESC
LIMIT 1
```

);



Q4. Find the list of dependents for all employees working at "Delhi".

>

```
SELECT Dep.Dependent_name
FROM Dependent Dep
JOIN
Employee E ON Dep.Essn = E.Ssn
JOIN
Department d ON d.Mgr_ssn = E.Ssn
JOIN
Dept_Locations d1 ON d1.Dnumber = d.Dnumber
WHERE d1.Dlocation = "Delhi";
```



Q5. List the employees ordered by their DoB.

>

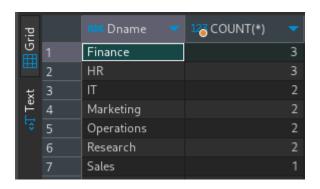
```
SELECT Fname, Lname
FROM Employee
ORDER BY Bdate;
```



Q6. List the employees with a salary > 50000 and group them by their department name.

```
>
```

```
SELECT d.Dname, COUNT(*)
FROM
Employee E
JOIN
Department d ON E.Dno = d.Dnumber
WHERE E.Salary > 10000
GROUP BY d.Dname;
```



Q7. Find the employee name with the 3rd highest salary.

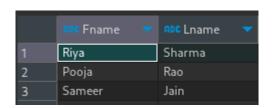
>

```
SELECT E.Fname, E.Lname
FROM
Employee E
ORDER BY
E.Salary
DESC LIMIT 1 OFFSET 2;
```



Q8. Find all the employees who are not working on any project.

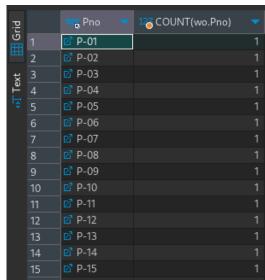
SELECT e.Fname, e.Lname
FROM
Works_On wo
JOIN
Employee e ON wo.Essn = e.Ssn
GROUP BY wo.Pno
HAVING COUNT(wo.Pno) = 0;



Q9. Report the project-wise count of employees sorted in

descending order.

SELECT wo.Pno, COUNT(wo.Pno)
FROM
Works_On wo
JOIN
Employee e ON wo.Essn = e.Ssn



GROUP BY wo. Pno;

Q10. Find all the employees who are working exactly on one project.

>SELECT e.Fname, e.Lname

FROM Works_On wo JOIN Employee e ON wo.Essn = e.Ssn GROUP BY wo.Pno

HAVING COUNT (wo.Pno) = 1;

