

15.564 Information Technology I

SQL Query Exercises

- Find First Name and Last Name for all employees who work for the 'Research' department

```
SELECT FNAME, LNAME
FROM EMPLOYEES, DEPARTMENT
WHERE DNAME = "Research" AND DNUMBER=DNO;
```

- For each employee, retrieve the employee's First and Last name and the first and last name of his/her immediate supervisor

```
SELECT E.FNAME, E.LNAME, S.FNAME, S.LNAME
FROM EMPLOYEES AS E, EMPLOYEES AS S
WHERE E.SUPERSSN = S.SSN;
```

- How many employees work in the 'Research' department?

```
SELECT COUNT(*)
FROM EMPLOYEE, DEPARTMENT
WHERE DNO=DNUMBER AND DNAME="Research";
```

- What is the maximum, minimum, and average salary in the 'Research' department?

```
SELECT MIN(SALARY), MAX(SALARY), AVG(SALARY)
FROM EMPLOYEE, DEPARTMENT
WHERE DNO=DNUMBER AND DNAME="Research";
```

- For each project on which more than two employees work, retrieve the project number, project name, and number of employees who work on that project

```
SELECT PNUMBER, PNAME, COUNT(*)
FROM PROJECT, WORKS_ON
WHERE PNUMBER=PNO
GROUP BY PNUMBER
HAVING COUNT(*)>2;
```

- For each project, retrieve the project number, project name, and number of employees from department 5 who work on this project

```
SELECT PNUMBER, PNAME, COUNT(*)
FROM PROJECT, WORKS_ON, EMPLOYEE
WHERE PNUMBER=PNO AND SSN=ESSN AND DNO=5
GROUP BY PNUMBER;
```