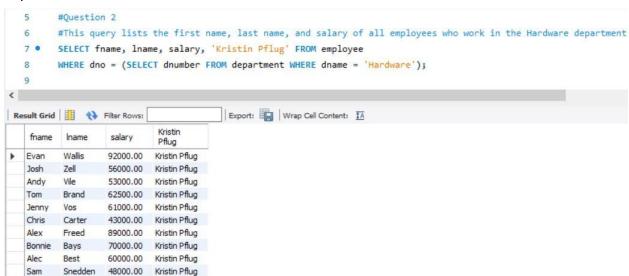Kristin Pflug

Homework 2: Company Database
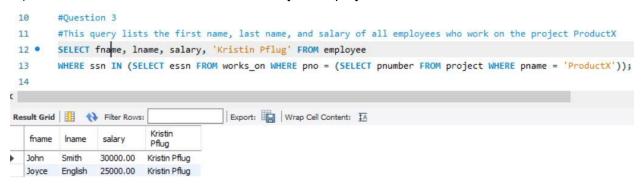
1.) An employee signs its initials on a document 'AJ'. Write a query to find the first and last name of the employee.

```
1      #Question 1
2      #This query finds the first and last names of the employee whose initials are 'AJ'
3 •    SELECT fname, lname, 'Kristin Pflug' FROM employee WHERE fname LIKE 'A%' AND lname LIKE 'J%';
4
5
```

fname	lname	Kristin Pflug
Ahmad	Jabbar	Kristin Pflug

2.) List the first name, last name, and salary of employees that work in the 'Hardware' department.

```
5      #Question 2
6      #This query lists the first name, last name, and salary of all employees who work in the Hardware department
7 •    SELECT fname, lname, salary, 'Kristin Pflug' FROM employee
8      WHERE dno = (SELECT dnumber FROM department WHERE dname = 'Hardware');
9
```

fname	lname	salary	Kristin Pflug
Evan	Wallis	92000.00	Kristin Pflug
Josh	Zell	56000.00	Kristin Pflug
Andy	Vile	53000.00	Kristin Pflug
Tom	Brand	62500.00	Kristin Pflug
Jenny	Vos	61000.00	Kristin Pflug
Chris	Carter	43000.00	Kristin Pflug
Alex	Freed	89000.00	Kristin Pflug
Bonnie	Bays	70000.00	Kristin Pflug
Alec	Best	60000.00	Kristin Pflug
Sam	Snedden	48000.00	Kristin Pflug

3.) List the first name, last name, and salary of employees that work on 'ProductX'.

```
10     #Question 3
11     #This query lists the first name, last name, and salary of all employees who work on the project ProductX
12 •   SELECT fname, lname, salary, 'Kristin Pflug' FROM employee
13     WHERE ssn IN (SELECT essn FROM works_on WHERE pno = (SELECT pnumber FROM project WHERE pname = 'ProductX'));
14
```

fname	lname	salary	Kristin Pflug
John	Smith	30000.00	Kristin Pflug
Joyce	English	25000.00	Kristin Pflug

4.) Company pays 5% of the salary of an employee as the 401k benefit. List the total amount of money that the company pays as 401k for all of its employees. Change the column name as total401k.

```
15      #Question 4
16      #This query calculates the total amount of money that the company pays as 401k to all its employees
17      # (listed in the results as total401k)
18      #NOTE: the company pays 5% of an employee's salary as the 401k benefit
19  •   SELECT SUM(401kAmount) AS total401k, 'Kristin Pflug'
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

total401k	Kristin Pflug
98350.0000	Kristin Pflug

5.) Find the total hours that employees work on project 'ProductX'.

```
21      #Question 5
22      #This query lists the total hours that employees work on the project ProductX
23      # (listed in the results as ProductX_total_hours)
24  •   SELECT SUM(hours) AS ProductX_total_hours, 'Kristin Pflug' FROM works_on
25      WHERE pno = (SELECT pnumber FROM project WHERE pname = 'ProductX');
26
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

ProductX_total_hours	Kristin Pflug
52.5	Kristin Pflug

6.) List the first name, last name, department name, and salary of the female employee that has the highest salary.

```
27      #Question 6
28      #This query lists the first name, last name, department name, and salary of the female employee with the highest salary
29  •   SELECT fname, lname, dname, salary, 'Kristin Pflug' FROM employee, department
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

fname	lname	dname	salary	Kristin Pflug
Kim	Grace	Software	79000.00	Kristin Pflug