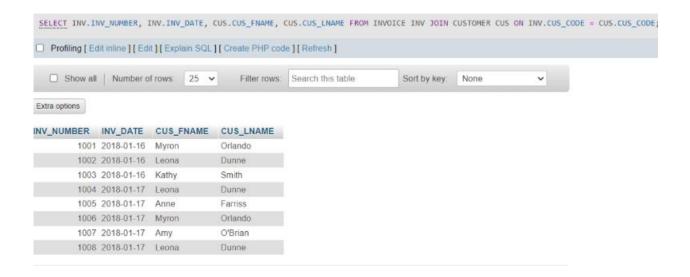
<u>Data & Information Management</u> 6.1P: SELECT Queries with Join and SQL Functions

Task 01

Write a SQL statement to list invoices with their INV_NUMBER, INV_DATE along with the CUS_FNAME and CUS_LNAME of the customers they belong to.

```
SELECT INV.INV_NUMBER, INV.INV_DATE, CUS.CUS_FNAME,
CUS.CUS_LNAME
FROM INVOICE INV
JOIN CUSTOMER CUS ON INV.CUS_CODE=CUS.CUS_CODE;
```

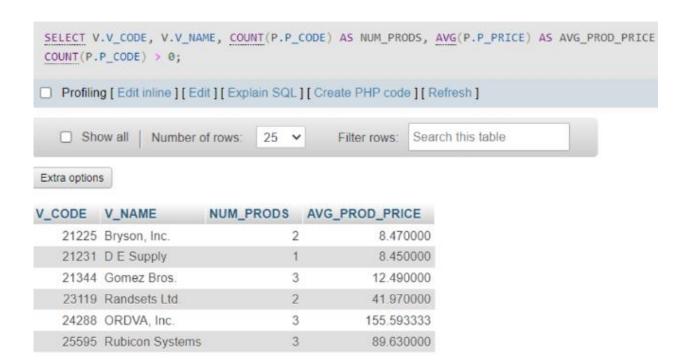


Write a SQL statement to list V_CODE and V_NAME along with the number of products they supply (column name as 'NUM_PRODS') and the average price of a product they supply (column name as 'AVG_PROD_PRICE').

```
SELECT V.V_CODE, V.V_NAME, COUNT(P.P_CODE) AS NUM_PRODS, AVG(P.P_PRICE) AS AVG_PROD_PRICE FROM VENDOR V

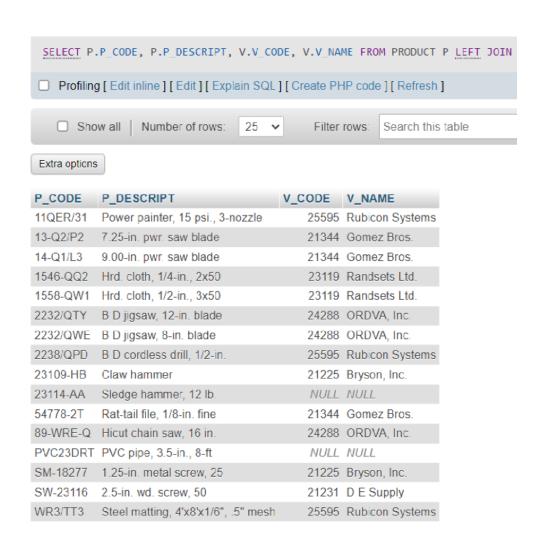
LEFT JOIN PRODUCT P ON V.V_CODE=P.V_CODE GROUP BY V.V_CODE, V.V_NAME

HAVING COUNT(P.P_CODE) > 0;
```



Write a SQL statement to list P_CODE and P_DESCRIPT of all products along with their vendors' V_CODE and V_NAME if available. Note that your results must include all products regardless of whether vendor information is available or not. For products where vendor information is not available, V_CODE and V_NAME columns will be empty or NULL in the result

```
SELECT P.P_CODE, P.P_DESCRIPT, V.V_NAME
FROM PRODUCT P
LEFT JOIN VENDOR V ON P.V_CODE=V.V_CODE;
```



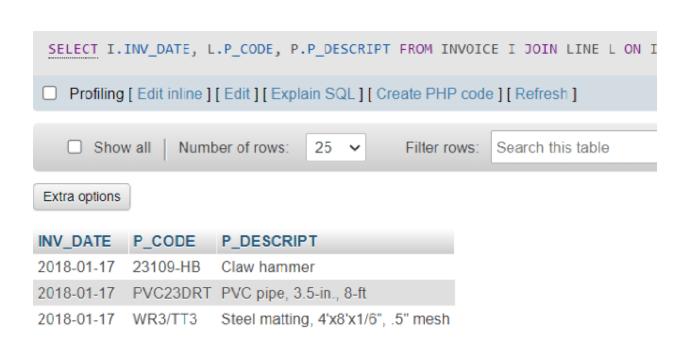
Write a SQL statement to retrieve INV_DATE and the list of products with P_CODE and P_DESCRIPT of the invoice with INV_NUMBER = 1008

```
SELECT I.INV_DATE,L.P_CODE,P.P_DESCRIPT
FROM INVOICE I

JOIN LINE L ON I.INV_NUMBER=L.INV_NUMBER

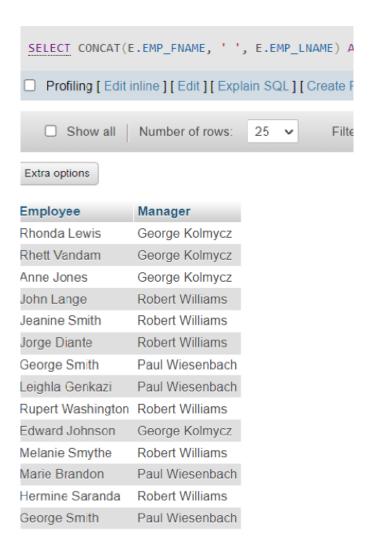
JOIN PRODUCT P ON L.P_CODE=P.P_CODE

WHERE I.INV_NUMBER=1008;
```



Here, the last column EMP_MGR refers to the employee's manager, the value is the manager's EMP_NUM. Write a SQL statement to list full names (by concatenating EMP_FNAME and EMP_LNAME separated by a space) of employees AS 'Employee' with their managers' full name (again by concatenating EMP_FNAME and EMP_LNAME separated by a space) AS 'Manager'

```
SELECT CONCAT(E.EMP_FNAME,'',E.EMP_LNAME)AS EMPLOYEE,
CONCAT(M.EMP_FNAME,'',M.EMP_LNAME)AS MANAGER
FROM EMP E
INNER JOIN EMP M ON E.EMP_MGR=M.EMP_NUM
;
```



Write a SQL statement to list P_CODE and P_DESCRIPT of products that came in store (INDATE) in the month of February of 2018.

```
SELECT P_CODE,P_DESCIPT
FROM PRODUCT
WHERE YEAR(P_INDATE)=2018ANDMONTH(P_INDATE)=2;
```

