

# Data & Information Management

## Assignment 6.1P

1. 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.

✓ Showing rows 0 - 7 (8 total, Query took 0.0003 seconds.)

```
SELECT INV_NUMBER, INV_DATE, CUS_FNAME, CUS_LNAME FROM invoice JOIN customer USING (CUS_CODE);
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:  Sort by key: None ▾

Extra options

INV_NUMBER	INV_DATE	CUS_FNAME	CUS_LNAME
1001	2018-01-16	Myron	Orlando
1002	2018-01-16	Leona	Dunne
1003	2018-01-16	Kathy	Smith
1004	2018-01-17	Leona	Dunne
1005	2018-01-17	Anne	Farriss
1006	2018-01-17	Myron	Orlando
1007	2018-01-17	Amy	O'Brian
1008	2018-01-17	Leona	Dunne

2. 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 product they supply (column name as 'AVG\_PROD\_PRICE').

✓ Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

```
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 JOIN Product P ON V.V_CODE = P.V_CODE GROUP BY V.V_CODE, V.V_NAME;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

V_CODE	V_NAME	NUM_PRODS	AVG_PROD_PRICE
21225	Bryson, Inc.	2	8.470000
21231	D E Supply	1	8.450000
21344	Gomez Bros.	3	12.490000
23119	Randsels Ltd.	2	41.970000
24288	ORDVA, Inc.	3	155.593333
25595	Rubicon Systems	3	89.630000

3. 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 (Hint: use outer join).

✓ Showing rows 0 - 15 (16 total, Query took 0.0003 seconds.)

```
SELECT P.P_CODE, P.P_DESCRIPT, V.V_CODE, V.V_NAME FROM product P LEFT JOIN vendor v ON P.V_CODE = V.V_CODE;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

P_CODE	P_DESCRIPT	V_CODE	V_NAME
11QER/31	Power painter, 15 psi., 3-nozzle	25595	Rubicon Systems
13-Q2/P2	7.25-in. pwr. saw blade	21344	Gomez Bros.
14-Q1/L3	9.00-in. pwr. saw blade	21344	Gomez Bros.
1546-QQ2	Hrd. cloth, 1/4-in., 2x50	23119	Randssets Ltd.
1558-QW1	Hrd. cloth, 1/2-in., 3x50	23119	Randssets Ltd.
2232/QTY	B D jigsaw, 12-in. blade	24288	ORDVA, Inc.
2232/QWE	B D jigsaw, 8-in. blade	24288	ORDVA, Inc.
2238/QPD	B D cordless drill, 1/2-in.	25595	Rubicon Systems
23109-HB	Claw hammer	21225	Bryson, Inc.
23114-AA	Sledge hammer, 12 lb.	NULL	NULL
54778-2T	Rat-tail file, 1/8-in. fine	21344	Gomez Bros.
89-WRE-Q	Hicut chain saw, 16 in.	24288	ORDVA, Inc.
PVC23DRT	PVC pipe, 3.5-in., 8-ft	NULL	NULL
SM-18277	1.25-in. metal screw, 25	21225	Bryson, Inc.
SW-23116	2.5-in. wd. screw, 50	21231	D E Supply
WR3/TT3	Steel matting, 4'x8'x1/6", .5" mesh	25595	Rubicon Systems

4. Write a SQL statement to retrieve INV\_DATE and the list of products with P\_CODE and P\_DESCRIPT of Page 3 of 4 the invoice with INV\_NUMBER = 1008 (Hint: you may have to join three tables).

✓ Showing rows 0 - 2 (3 total, Query took 0.0009 seconds.)

```
SELECT I.INV_DATE, P.P_CODE, P.P_DESCRIPT FROM invoice I JOIN line L on I.INV_NUMBER = L.INV_NUMBER JOIN product P on P.P_CODE = L.P_CODE WHERE I.INV_NUMBER = 1008;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

INV_DATE	P_CODE	P_DESCRIPT
2018-01-17	23109-HB	Claw hammer
2018-01-17	PVC23DRT	PVC pipe, 3.5-in., 8-ft
2018-01-17	WR3/TT3	Steel matting, 4'x8'x1/6", .5" mesh

5. 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' (Hint: recursive/self-join and string concatenation).

Showing rows 0 - 13 (14 total, Query took 0.0003 seconds.)

```
SELECT CONCAT(E.EMP_FNAME, ' ', E.EMP_LNAME) AS Employee, CONCAT(M.EMP_FNAME, ' ', M.EMP_LNAME) AS Manager FROM emp E JOIN emp M ON E.EMP_MGR = M.EMP_NUM;
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

Employee	Manager
Rhonda Lewis	George Kolmycz
Rhett Vandam	George Kolmycz
Anne Jones	George Kolmycz
John Lange	Robert Williams
Jeanine Smith	Robert Williams
Jorge Dante	Robert Williams
George Smith	Paul Wiesenbach
Leighla Genkazi	Paul Wiesenbach
Rupert Washington	Robert Williams
Edward Johnson	George Kolmycz
Melanie Smythe	Robert Williams
Marie Brandon	Paul Wiesenbach
Hermine Saranda	Robert Williams
George Smith	Paul Wiesenbach

6. 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.

Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
SELECT P_CODE, P_DESCRIPT FROM product WHERE MONTH(P_INDATE) = 2 AND YEAR(P_INDATE) = 2018;
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: N

Extra options

	P_CODE	P_DESCRIPT
<input type="checkbox"/> Edit Copy Delete	89-WRE-Q	Hicut chain saw, 16 in.
<input type="checkbox"/> Edit Copy Delete	PVC23DRT	PVC pipe, 3.5-in., 8-ft
<input type="checkbox"/> Edit Copy Delete	SW-23116	2.5-in. wd. screw, 50

Check all With selected: Edit Copy Delete Export