

1.

```
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;
```

The screenshot shows the phpMyAdmin interface with the 'invoice' table selected. The SQL query is: `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;`. The result shows 8 rows of data.

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.

```
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;
```

The screenshot shows the phpMyAdmin interface with the 'VENDOR' table selected. The SQL query is: `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;`. The result shows 6 rows of data.

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	Randssets Ltd.	2	41.970000
24288	ORDVA, Inc.	3	155.593333
25595	Rubicon Systems	3	89.630000

3.

```
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;
```

Recent Favorites

- New
- company10
- information_schema
- institute
- mysql
- performance_schema
- phpmyadmin
- sit103
 - New
 - company
 - customer
 - emp
 - employee
 - invoice
 - line
 - manages
 - product
 - vendor
 - works
- test
- ubereats

Server: 127.0.0.1 » Database: sit103 » Table: VENDOR

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)

Showing rows 0 - 15 (16 total, Query took 0.0007 seconds.)

[SELECT P.P_CODE, P.P_DESCRIPT, V.V_CODE, V.V_NAME FROM PRODUCT P LEFT JOIN](#)

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

☐ Show all
Number of rows:
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.

```
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;
```

The screenshot shows the phpMyAdmin interface. The left sidebar displays a database tree with 'sit103' selected. The main panel shows the 'Table: VENDOR' view. A message indicates that the current selection does not contain a unique column. Below this, a green banner states 'Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)'. The SQL query is displayed: `SELECT I.INV_DATE, L.P_CODE, P.P_DESCRIPT FROM INVOICE I JOIN LINE L ON I`. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A control bar shows 'Show all', 'Number of rows: 25', and 'Filter rows: Search this table'. An 'Extra options' button is also present. The query result is displayed in a table with three columns: INV_DATE, P_CODE, and P_DESCRIPT.

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.

```
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;
```

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The 'sit103' database is selected, showing tables like 'company', 'customer', 'emp', 'employee', 'invoice', 'line', 'manages', 'product', 'vendor', 'works', 'test', and 'ubereats'. The main panel has tabs for 'Browse', 'Structure', 'SQL', and 'Search'. The 'SQL' tab is active, displaying a query box with the SQL query. Below the query box, a message states 'Showing rows 0 - 13 (14 total, Query took 0.0006 seconds)'. The query result is displayed in a table with two columns: 'Employee' and 'Manager'.

Employee	Manager
Rhonda Lewis	George Kolmycz
Rhett Vandam	George Kolmycz
Anne Jones	George Kolmycz
John Lange	Robert Williams
Jeanine Smith	Robert Williams
Jorge Diante	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.

```
SELECT P_CODE, P_DESCRIPT
```

```
FROM PRODUCT
```

```
WHERE YEAR(P_INDATE) = 2018 AND MONTH(P_INDATE) = 2;
```

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The main area displays the results of a SQL query. The query is: `SELECT P_CODE, P_DESCRIPT FROM PRODUCT WHERE YEAR(P_INDATE) = 2018 AND MONTH(P_INDATE) = 2;`. The results show 3 rows. The table has columns `P_CODE` and `P_DESCRIPT`.

Server: 127.0.0.1 » Database: sit103 » Table: PRODUCT

Buttons: Browse, Structure, SQL, Search, Insert, Export

Show query box

Showing rows 0 - 2 (3 total, Query took 0.0013 seconds.)

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

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

☐ Show all | Number of rows: 25 | Filter rows: Search this table

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