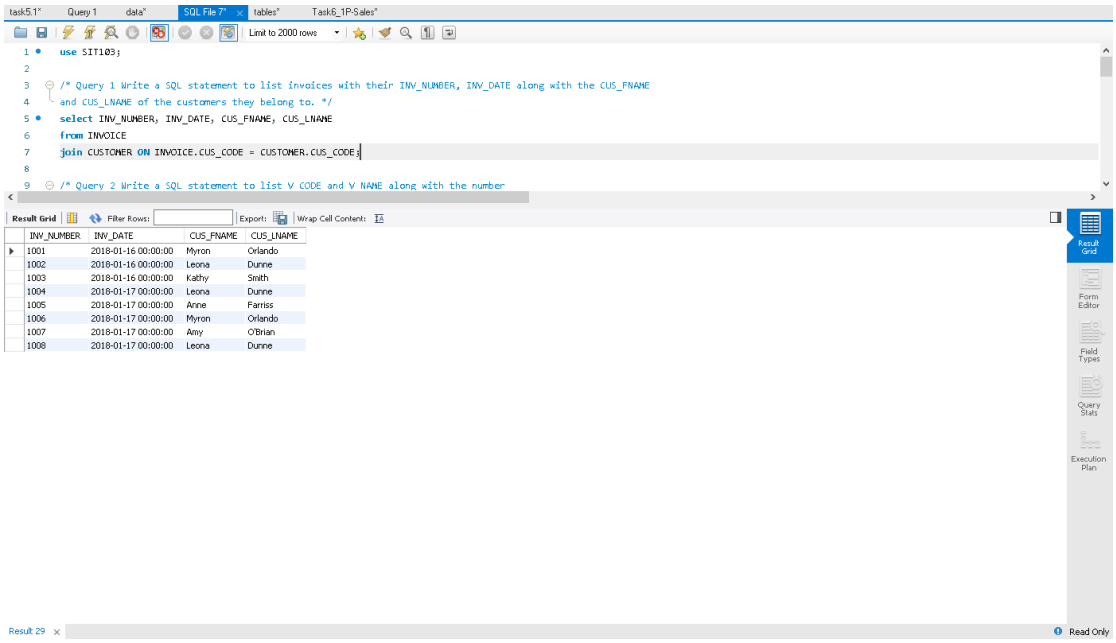
Q1



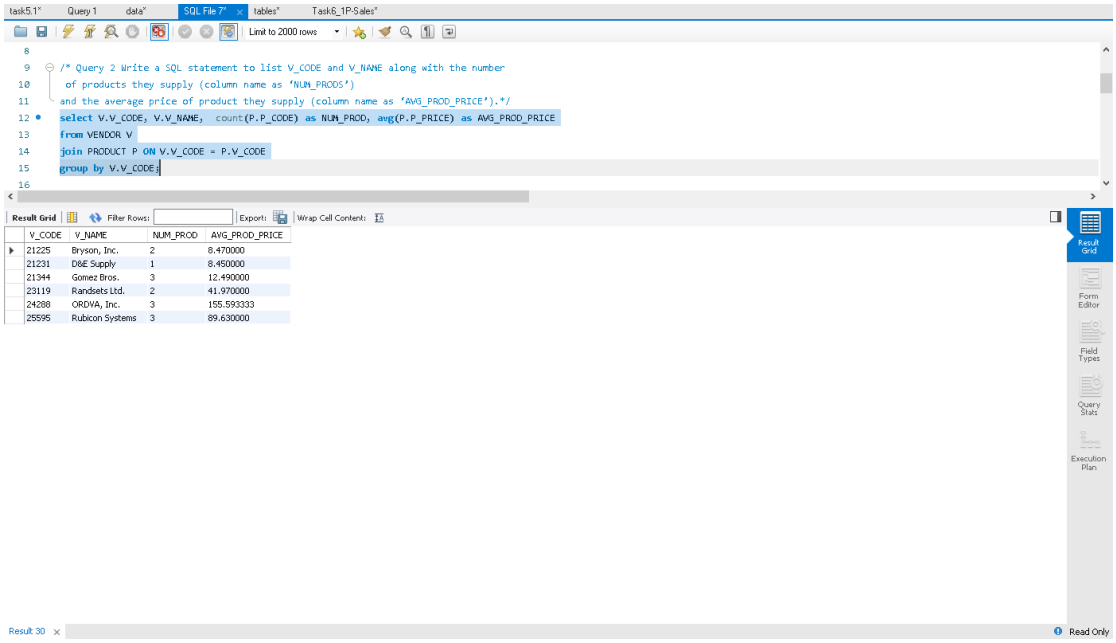
```
use SIT103;

/* Query 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. */
select INV_NUMBER, INV_DATE, CUS_FNAME, CUS_LNAME
from INVOICE
join CUSTOMER ON INVOICE.CUS_CODE = CUSTOMER.CUS_CODE;

/* Query 2 Write a SQL statement to list V_CODE and V_NAME along with the number
```

INV_NUMBER	INV_DATE	CUS_FNAME	CUS_LNAME
1001	2018-01-16 00:00:00	Myron	Orlando
1002	2018-01-16 00:00:00	Leona	Dunne
1003	2018-01-16 00:00:00	Kathy	Smith
1004	2018-01-17 00:00:00	Leona	Dunne
1005	2018-01-17 00:00:00	Anne	Farriss
1006	2018-01-17 00:00:00	Myron	Orlando
1007	2018-01-17 00:00:00	Amy	O'Brian
1008	2018-01-17 00:00:00	Leona	Dunne

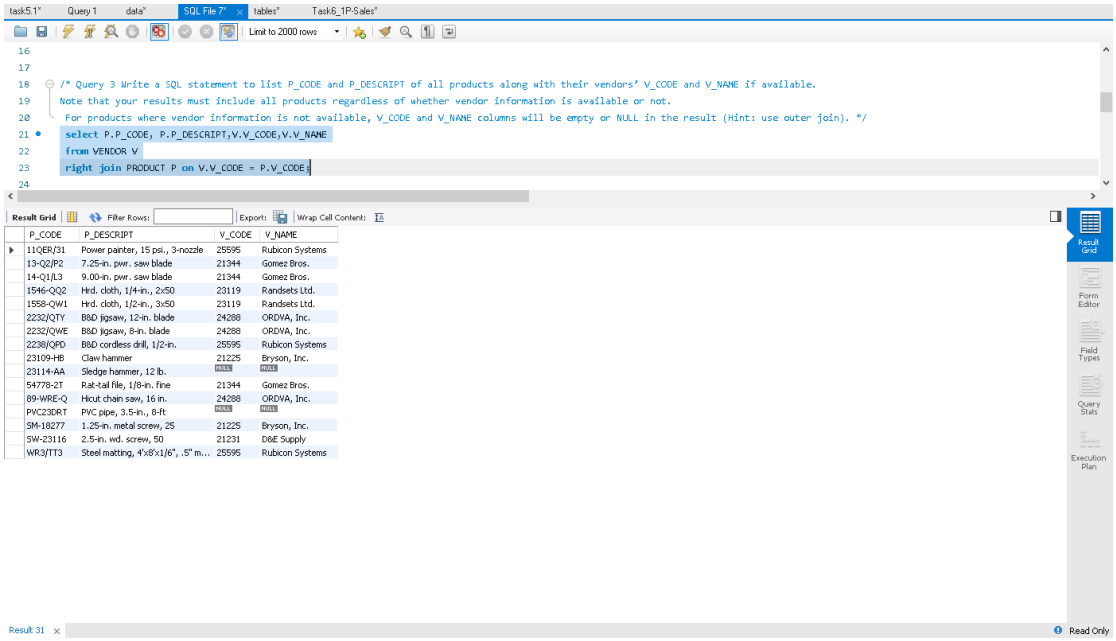
Q2



```
/* Query 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').*/
select V.V_CODE, V.V_NAME,  count(P.P_CODE) as NUM_PROD, 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_CODE	V_NAME	NUM_PROD	AVG_PROD_PRICE
21225	Bryson, Inc.	2	8.470000
21231	D&E Supply	1	8.450000
21344	Gomez Bros.	3	12.490000
23119	Randsets Ltd.	2	41.970000
24288	ORDVA, Inc.	3	155.593333
25595	Rubicon Systems	3	89.630000

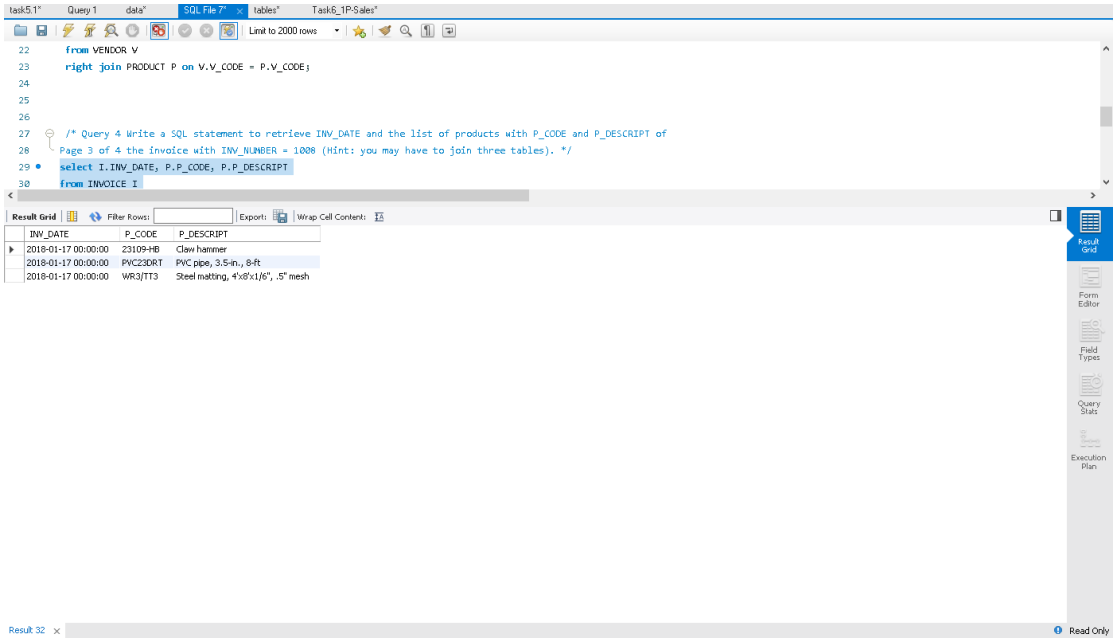
Q3



```
/* Query 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). */
select P.P_CODE, P.P_DESCRIPT,V.V_CODE,V.V_NAME
from VENDOR V
right join PRODUCT P on V.V_CODE = P.V_CODE;
```

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	Randsets Ltd.
1558-QW1	Hrd. cloth, 1/2-in., 3x50	23119	Randsets 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" m...	25595	Rubicon Systems

Q4

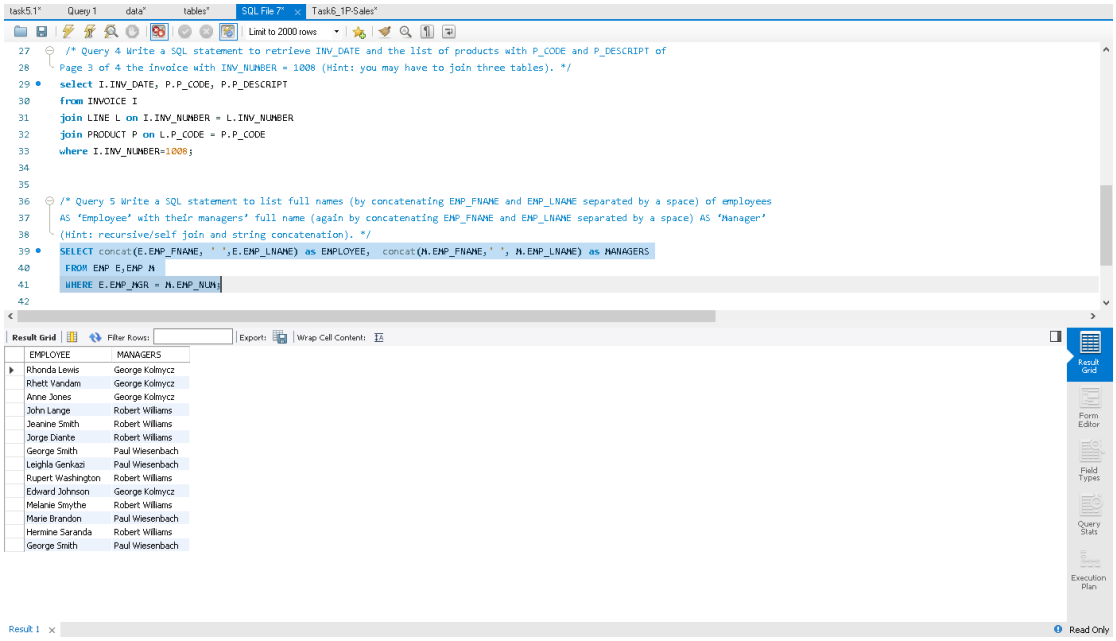


```
from VENDOR V
right join PRODUCT P on V.V_CODE = P.V_CODE;

/* Query 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). */
select I.INV_DATE, P.P_CODE, P.P_DESCRIPT
from INVOICE I
```

INV_DATE	P_CODE	P_DESCRIPT
2018-01-17 00:00:00	23109-HB	Claw hammer
2018-01-17 00:00:00	PVC23DRT	PVC pipe, 3.5-in., 8-ft
2018-01-17 00:00:00	WR3/TT3	Steel matting, 4'x8'x1/6", .5" mesh

Q5

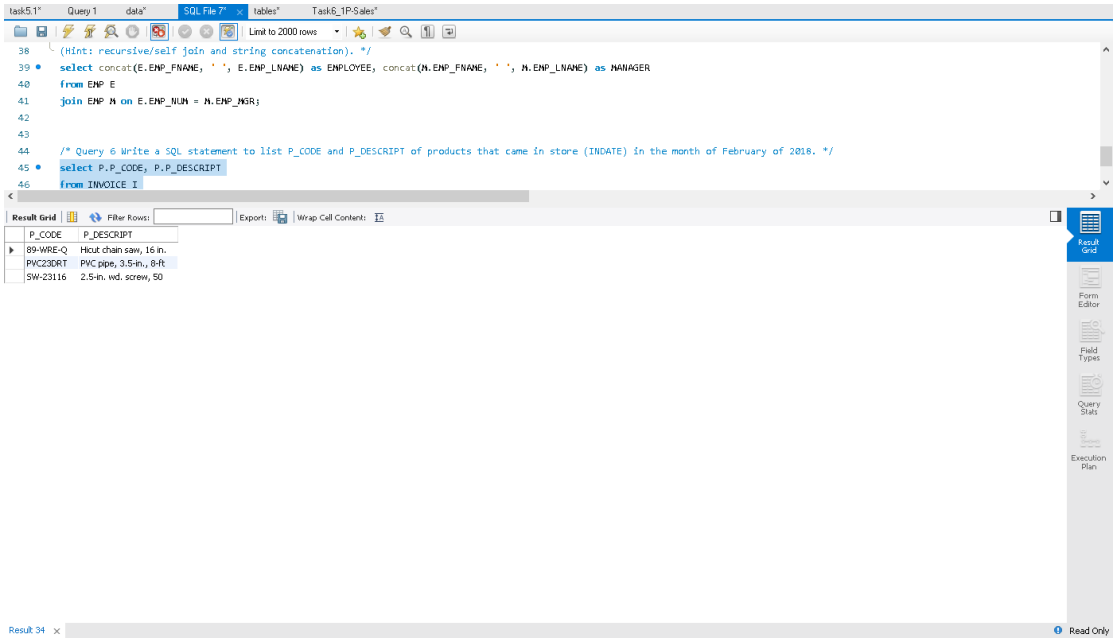


```
/* Query 4 Write a SQL statement to retrieve INV_DATE and the list of products with P_CODE and P_DESCRIPT of
Page 3 of 4 the invoice with INV_NUMBER = 1008 (Hint: you may have to join three tables). */
select I.INV_DATE, P.P_CODE, P.P_DESCRIPT
from INVOICE I
join LINE L on I.INV_NUMBER = L.INV_NUMBER
join PRODUCT P on L.P_CODE = P.P_CODE
where I.INV_NUMBER=1008;


/* Query 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). */
SELECT concat(E.EMP_FNAME, ' ',E.EMP_LNAME) as EMPLOYEE,  concat(M.EMP_FNAME,' ', M.EMP_LNAME) as MANAGERS
 FROM EMP E,EMP M
 WHERE E.EMP_MGR = M.EMP_NUM;
```

EMPLOYEE	MANAGERS
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

Q6



```
(Hint: recursive/self join and string concatenation). */
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_NUM = M.EMP_MGR;


/* Query 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. */
select P.P_CODE, P.P_DESCRIPT
from INVOICE I
```

P_CODE	P_DESCRIPT
89-WRE-Q	Hicut chain saw, 16 in.
PVC23DRT	PVC pipe, 3.5-in., 8-ft
SW-23116	2.5-in. wd. screw, 50