# TASK

## 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.

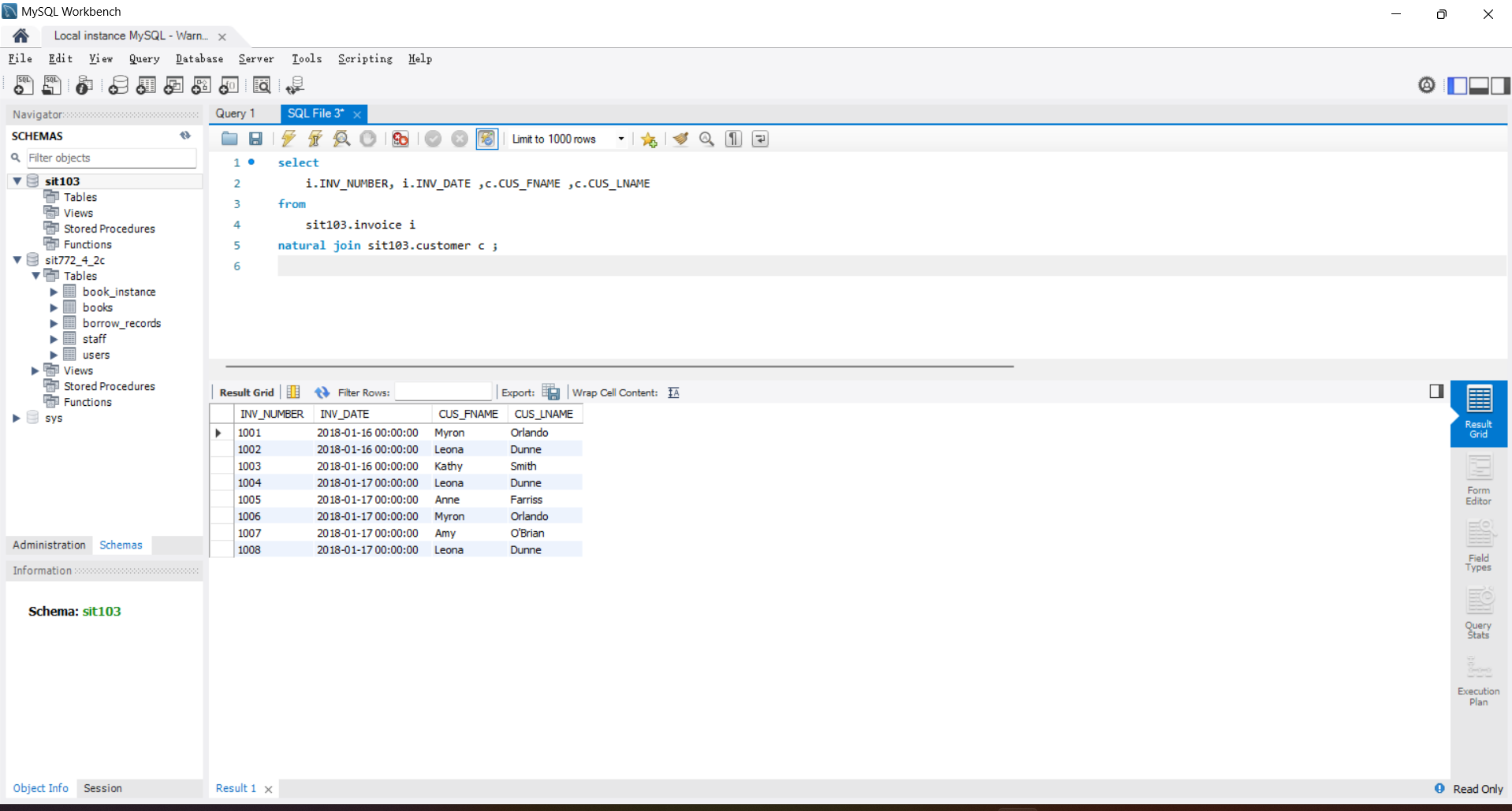
**select**

**i.INV\_NUMBER, i.INV\_DATE ,c.CUS\_FNAME ,c.CUS\_LNAME**

**from**

**sit103.invoice i**

**natural join sit103.customer c ;**

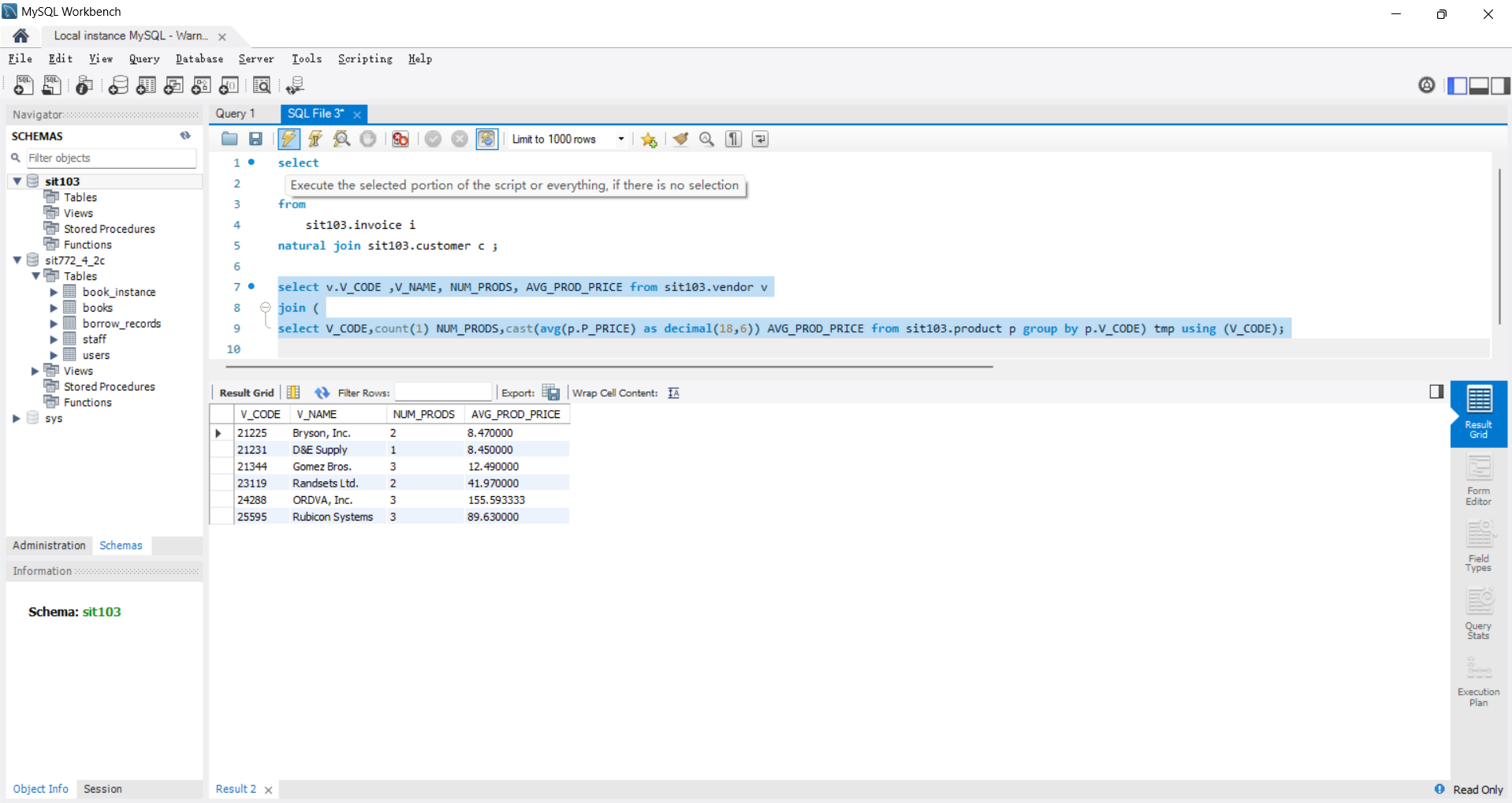


## 2. Write a SQL statement to list V\_CODE and V\_NAME along with the number of products they supply (column name as ‘NUM\_PRODS’) and the average price of product they supply (column name as ‘AVG\_PROD\_PRICE’).

select v.V\_CODE ,V\_NAME, NUM\_PRODS, AVG\_PROD\_PRICE from sit103.vendor v

join (

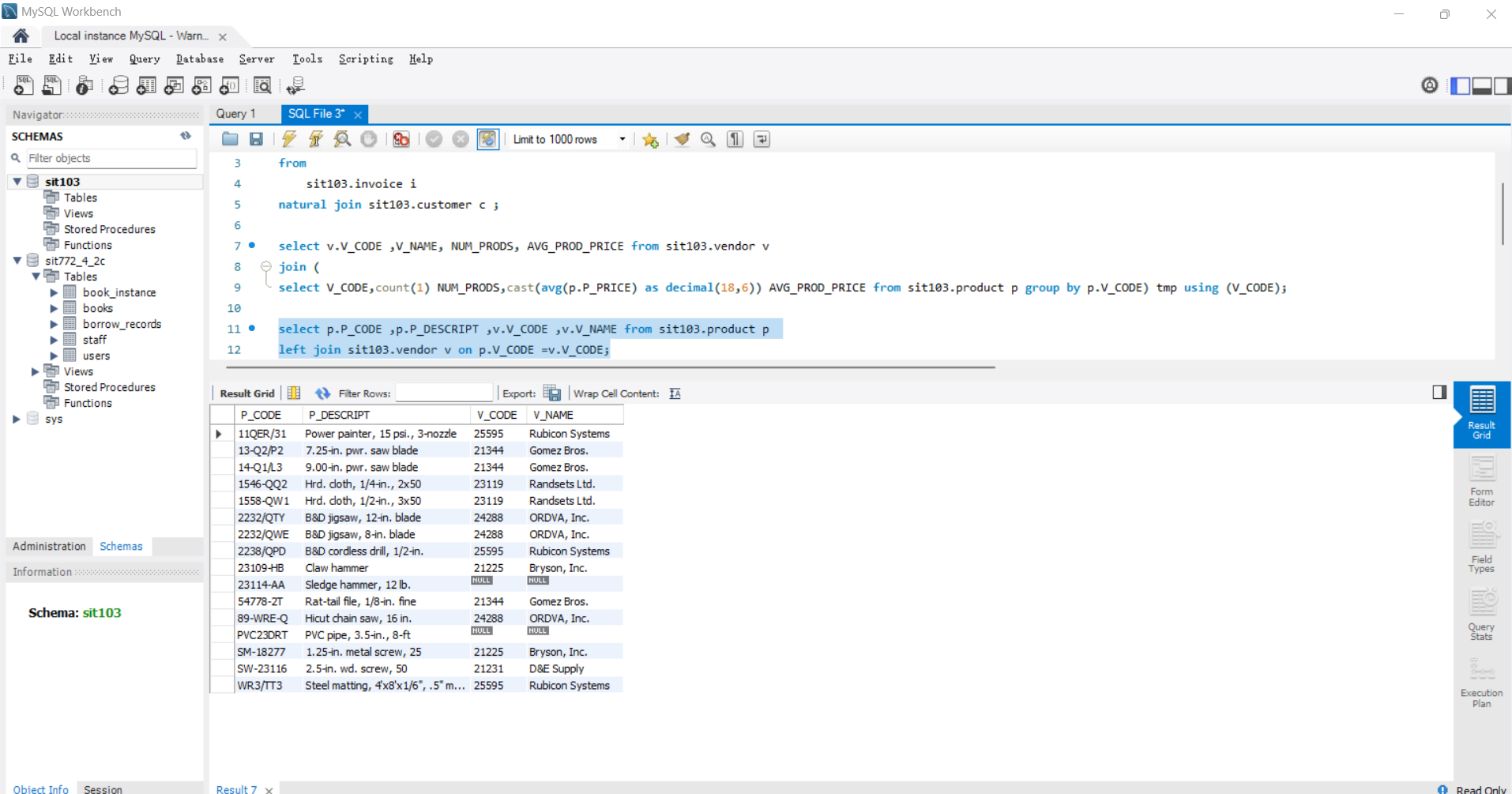
select V\_CODE,count(1) NUM\_PRODS,cast(avg(p.P\_PRICE) as decimal(18,6)) AVG\_PROD\_PRICE from sit103.product p group by p.V\_CODE) tmp using (V\_CODE);



## 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 sit103.product p

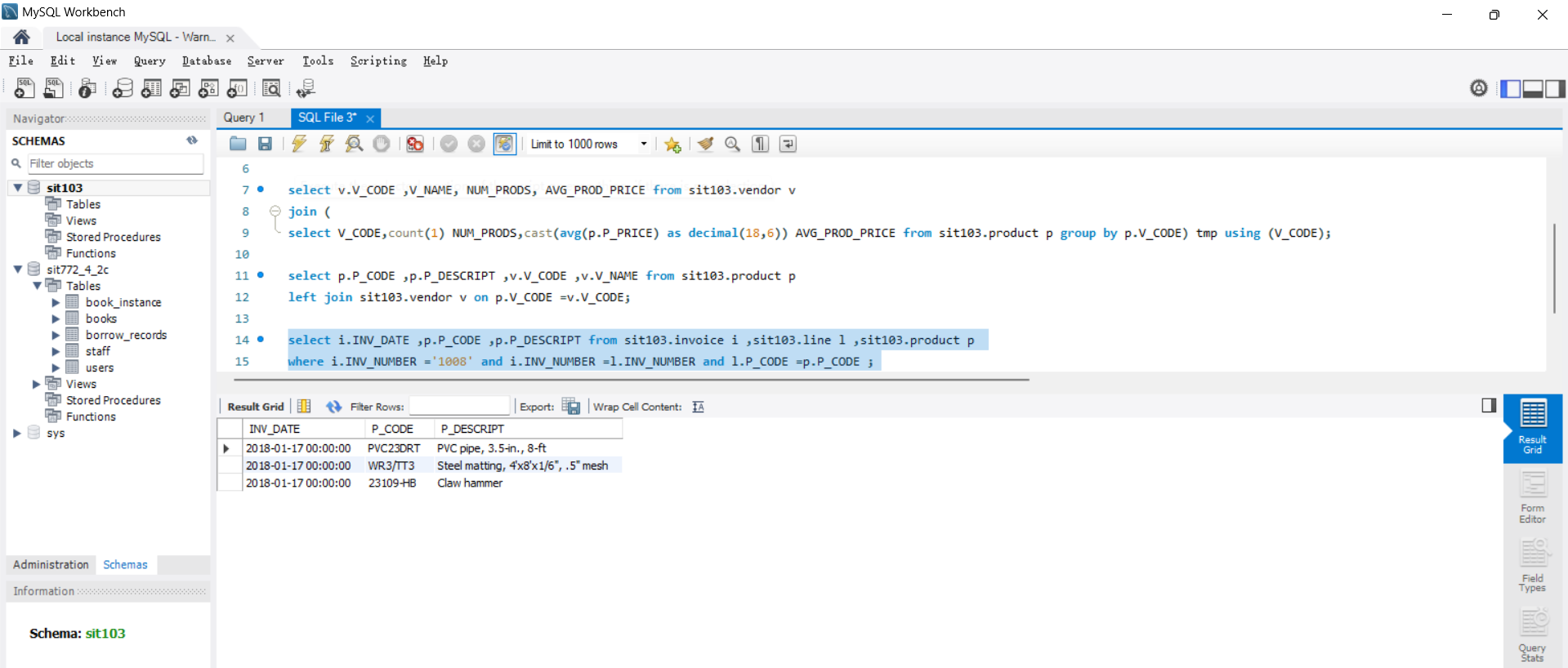
left join sit103.vendor v on p.V\_CODE =v.V\_CODE;



## 4. 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 (Hint: you may have to join three tables).

select i.INV\_DATE ,p.P\_CODE ,p.P\_DESCRIPT from sit103.invoice i ,sit103.line l ,sit103.product p

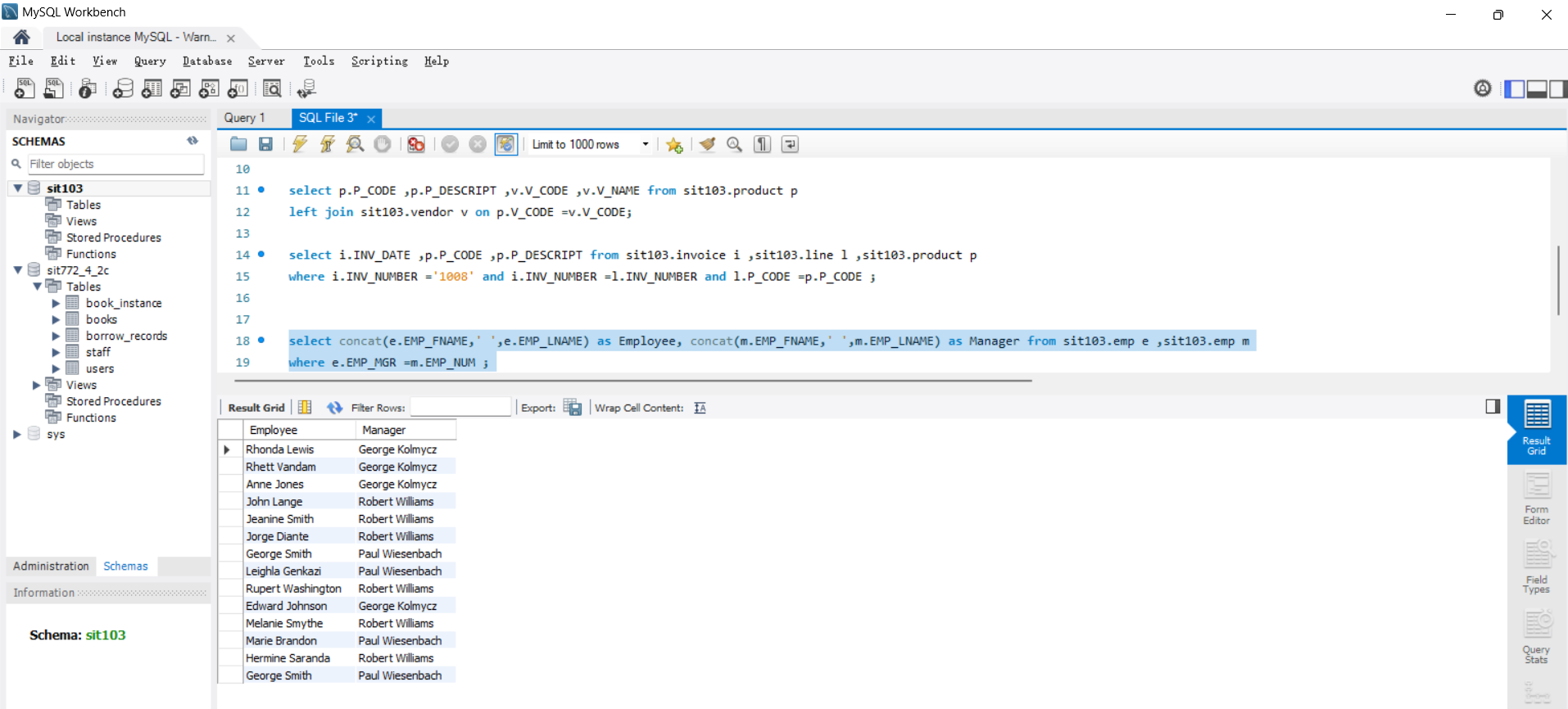
where i.INV\_NUMBER ='1008' and i.INV\_NUMBER =l.INV\_NUMBER and l.P\_CODE =p.P\_CODE ;



## 5. EMP table has records as follows:

select concat(e.EMP\_FNAME,' ',e.EMP\_LNAME) as Employee, concat(m.EMP\_FNAME,' ',m.EMP\_LNAME) as Manager from sit103.emp e ,sit103.emp m

where e.EMP\_MGR =m.EMP\_NUM ;



## 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\_CODE , P\_DESCRIPT from sit103.product p where year(P\_INDATE) = '2018' and month(P\_INDATE)=2;

