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 ;

	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

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);

Result Grid				
	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	Randsets 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).

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;

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	Brvson. Inc.

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 ;

INV_DATE	P_CODE	P_DESCRIPT
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
2018-01-17 00:00:00	23109-HB	Claw hammer

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 ;

	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

Result 8 ∨

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;

Result Grid | Filter Rows:

	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
∗	NULL	NULL