# **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
١	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);



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;

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	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. doth, 1/4-in., 2x50	23119	Randsets Ltd.
	1558-QW1	Hrd. doth, 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.

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 I ,sit103.product p

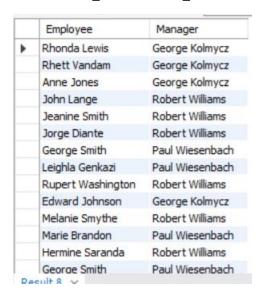
where i.INV\_NUMBER ='1008' and i.INV\_NUMBER =I.INV\_NUMBER and I.P\_CODE =p.P\_CODE ;



## 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;

