Recap Exercises 3

Question 1

From the following table, write a SQL query to locate the employees whose last name begins with the letter 'D'. Return emp_idno, emp_fname, emp_lname and emp_dept.

Sample table: emp_details

EMP_IDNO H	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

Sample Output:

emp_idno	emp_fname	emp_lname	emp_dept
843795	Enric	Dosio	57
444527	Joseph	Dosni	47

From the following table, write a SQL query to find those customers who placed orders on October 5, 2012. Return customer_id, cust_name, city, grade, salesman_id, ord_no, purch_amt, ord_date, customer_id and salesman_id.

Sample table: salesman

salesman_id		-	
•	+ James Hoog		
	Nail Knite		
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

Sample table: customer

customer_id	cust_name		city		grade		salesman_id
+		-+		-+		-+	
2000	l l		3.T 3.Z 1		1 0 0		F 0 0 1
3002	Nick Rimando		New York		100		5001
3007	Brad Davis		New York		200		5001
3005	Graham Zusi		California	.	200		5002
3008	Julian Green		London		300		5002
3004	Fabian Johnson		Paris		300		5006
3009	Geoff Cameron		Berlin		100		5003
3003	Jozy Altidor		Moscow		200		5007
3001	Brad Guzan	- [London			-	5005

Sample table: orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002

70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

Sample Output:

customer_id	cust_name	city	grade	salesman_id	ord_no
purch	_amt ord_d	late cust	comer_id	salesman_id	
3002	Nick Rimand	o New York	100	5001	70002
65.26	2012-	10-05 3002	2	5001	
3005	Graham Zusi	California	200	5002	70001
150.50					

From the following tables, write a SQL query to find all the orders issued by the salesman 'Paul Adam'. Return ord_no, purch_amt, ord_date, customer_id and salesman_id.

Sample table: Salesman

name	city	commission
James Hoog	New York	0.15
Nail Knite	Paris	0.13
Pit Alex	London	0.11
Mc Lyon	Paris	0.14
Lauson Hen	San Jose	0.12
Paul Adam	Rome	0.13
	James Hoog Nail Knite Pit Alex Mc Lyon Lauson Hen	James Hoog New York Nail Knite Paris Pit Alex London Mc Lyon Paris Lauson Hen San Jose

Sample table: Orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

From the following tables, write a SQL query to find all those salespeople and customers who are involved in the inventory management system. Return salesperson ID, customer ID.

Sample table: orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

Sample table: customer

customer_id	cust_name		city		-	salesman_	_
		-+		-+		+	
3002	Nick Rimando	1	New York	١	100		5001
3007	Brad Davis		New York		200		5001
3005	Graham Zusi		California		200	"	5002
3008	Julian Green		London		300		5002
3004	Fabian Johnson		Paris		300		5006
3009	Geoff Cameron		Berlin		100		5003
3003	Jozy Altidor		Moscow		200		5007
3001	Brad Guzan		London			;	5005

Sample Output:

From the following tables write a query in SQL to compare the purchasing status of the average purchase quantity of products of a category to the average pruchase quantity of the distributor. Return purchase month, category_id and purchase status.

Table: product

Data:

```
product_id|category_id|
-----+

8001| 150|
8002| 160|
8003| 160|
8004| 150|
8005| 160|
```

Table: purchase

Data:

```
purchase no|item code|purchase qty|purchase date|
-----
      1001| 8001| 240| 2019-12-17|
1002| 8002| 150| 2019-12-17|
1003| 8003| 175| 2020-11-15|
1004| 8004| 150| 2019-12-17|
      1005|
                             145| 2019-12-05|
              8005|
                             150| 2020-01-05|
      1006|
               8001|
      1007|
                8002|
                            200| 2020-01-15|
      10081
                80031
                             150 | 2020-12-17 |
                             200| 2020-01-28|
      1009|
               8001|
                            180| 2020-02-07|
      1010|
               8002|
      1011| 8001|
                            300| 2020-02-25|
```

1012| 8005| 100| 2020-01-27|

Output:

<pre>purchase_month</pre>	category_id	purchase_status
	+	++
2019-12	150	increase
2020-01	150	increase
2020-02	150	increase
2019-12	160	decrease
2020-01	160	decrease
2020-02	160	decrease
2020-11	160	remain same
2020-12	160	remain same

Question 6

Consider the Employee table below.

Emp_ld	Emp_name	Salary	Manager_Id
10	Anil	50000	18
11	Vikas	75000	16
12	Nisha	40000	18
13	Nidhi	60000	17
14	Priya	80000	18
15	Mohit	45000	18
16	Rajesh	90000	-
17	Raman	55000	16
18	Santosh	65000	17

Write a query to generate below output:

Manager_Id	Manager	Average_Salary_Under_Manager
16	Rajesh	65000
17	Raman	62500
18	Santosh	53750

Question 7

Use the purchase_order_ tab and the purchase_order_line_tab defined in the Apps 10 environment to build-up the queries for the below.

- a. List all the rows from the purchase_order_ tab
- b. List all the rows from the purchase_order_line_tab
- c. Identify the purchase order lines where the purchase order Rowstate = 'Received' or 'Released'.
- d. Identify the purchase orders having more than 2 purchase order lines.

Question 8

Use the inventory_part_tab defined in the Apps 10 environment to build-up the queries for the below.

- a. List the PART_NO, DESCRIPTION, CONTRACT, TYPE_CODE, PLANNER_BUYER, UNIT_MEAS, PART_STATUS of all the records from the inventory_part_tab.
- b. Find the number of parts for each part type.

Question 9

Use the below tables and answer the questions.

```
emp (eno, ename, bdate, title, salary, dno)
proj (pno, pname, budget, dno)
dept (dno, dname, mgreno)
workson (eno, pno, resp, hours)
```

1) Write an SQL query that returns the project number and name for projects with a budget greater than \$100,000.

- 2) Write an SQL query that returns all works on records where hours worked is less than 10 and the responsibility is 'Manager'.
- 3) Write an SQL query that returns the employees (number and name only) who have a title of 'EE' or 'SA' and make more than \$35,000.
- 4) Write an SQL query that returns the employees (name only) in department 'D1' ordered by decreasing salary.
- 5) Write an SQL query that returns the departments (all fields) ordered by ascending department name.
- 6) Write an SQL query that returns the employee name, department name, and employee title.
- 7) Write an SQL query that returns the project name, hours worked, and project number for all works on records where hours > 10.
- 8) Write an SQL query that returns the project name, department name, and budget for all projects with a budget < \$50,000.
- 9) Write an SQL query that returns the employee numbers and salaries of all employees in the 'Consulting' department ordered by descending salary.
- 10) Write an SQL query that returns the employee name, project name, employee title, and hours for all works on records.