

SQL CLASS ASSIGNMENT- V

Subqueries and corelated sub queries

-- 1. Write a SQL query to find those employees who receive a higher salary than the employee with ID 7566. Return their names

```
SELECT ENAME  
FROM EMP  
WHERE SAL > (SELECT SAL FROM EMP WHERE EMPNO = 7566);
```

Results		Messages
	ename	
1	SCOTT	
2	KING	
3	FORD	

-- 2. Write a SQL query to find out which employees have the same designation as the employee whose ID is 7876. Return name, department no and job .

```
SELECT ENAME,DEPTNO,JOB  
FROM EMP  
WHERE JOB = (SELECT JOB FROM EMP WHERE EMPNO=7876);
```

Results				Messages
	ENAME	DEPTNO	JOB	
1	SMITH	20	CLERK	
2	ADAMS	20	CLERK	
3	JAMES	30	CLERK	
4	MILLER	10	CLERK	

-- 3. Write a SQL query to find those employees who report to that manager whose name starts with a 'B' or 'C'. Return first name, employee ID and salary

```
SELECT ENAME, EMPNO, SAL
FROM EMP
WHERE MGR_ID IN (
    SELECT EMPNO
    FROM EMP
    WHERE ENAME LIKE 'B%' OR ENAME LIKE 'C%'
);
```

Results Messages			
	ENAME	EMPNO	SAL
1	ALLEN	7499	1600.00
2	WARD	7521	1250.00
3	MARTIN	7654	1250.00
4	ADAMS	7876	1100.00
5	FORD	7902	3000.00

-- 4. Use Northwind database to solve :

a) Find products that are more expensive than the average price of products in their own category. Include the category name, product name, and unit price in the result.

```
SELECT C.CategoryName, P.ProductName, P.UnitPrice
FROM Products P
JOIN Categories C ON P.CategoryID = C.CategoryID
WHERE P.UnitPrice > (
    SELECT AVG(UnitPrice)
    FROM Products
    WHERE CategoryID = P.CategoryID
);
```

Results Messages			
	CategoryName	ProductName	UnitPrice
1	Beverages	Côte de Blaye	263.50
2	Beverages	Ipoh Coffee	46.00
3	Condiments	Grandma's Boysenberry Spread	25.00
4	Condiments	Northwoods Cranberry Sauce	40.00
5	Condiments	Sirop d'érable	28.50
6	Condiments	Veggie-spread	43.90
7	Confections	Sir Rodney's Marmalade	81.00
8	Confections	Gumbär Gummibärchen	31.23
9	Confections	Schoggi Schokolade	43.90
10	Confections	Tarte au sucre	49.30
11	Dairy Products	Queso Manchego La Pastora	38.00
12	Dairy Products	Mascarpone Fabioli	32.00
13	Dairy Products	Raclette Courdavault	55.00
14	Dairy Products	Camembert Pierrot	34.00

b) For each category, display its name, the number of discontinued products in this category (discontinued), and the number of all products in this category

```
SELECT C.CategoryName,  
       (SELECT COUNT(*) FROM Products WHERE CategoryID =  
C.CategoryID AND Discontinued = 1) AS DiscontinuedProducts,  
       (SELECT COUNT(*) FROM Products WHERE CategoryID =  
C.CategoryID) AS TotalProducts  
FROM Categories C;
```

Results		Messages	
	CategoryName	DiscontinuedProducts	TotalProducts
1	Beverages	1	12
2	Condiments	1	12
3	Confections	0	13
4	Dairy Products	0	10
5	Grains/Cereals	1	7
6	Meat/Poultry	4	6
7	Produce	1	5
8	Seafood	0	12