

# Advanced SQL Server Lab1

## Notes:

- **Attach ITI and adventureworks2012 DBs to Server**

## Part-1: Use ITI DB

1. Display instructor Name and Department Name  
Note: display all the instructors if they are attached to a department or not
2. Display student full name and the name of the course he is taking  
For only courses which have a grade
3. Display number of courses for each topic name
4. Display max and min salary for instructors
5. Display instructors who have salaries less than the average salary of all instructors.
6. Display the Department name that contains the instructor who receives the minimum salary.

## Part-2: Use AdventureWorks DB

1. Display the SalesOrderID, ShipDate of the SalesOrderHeader table (Sales schema) to designate SalesOrders that occurred within the period '7/28/2008' and '7/29/2014'
2. Display only Products with a StandardCost below \$110.00 (show ProductID, Name only)
3. Display ProductID, Name if its weight is unknown
4. Display all Products with a Silver, Black, or Red Color
5. Display any Product with a Name starting with the letter B
6. Transfer the rowguid ,FirstName, SalesPerson from Customer table in a newly created table named [customer\_Archive] **updated**

Note: Check your database to see the new table and how many rows in it?

-Try the previous query but without transferring the data

### Part-3: Use Company\_SD DB

1. Display the Department id, name and SSN and the name of its manager.
2. Display the name of the departments and the name of the projects under its control.
3. display all the employees in department 30 whose salary from 1000 to 2000 LE monthly.
4. Retrieve the names of all employees in department 10 who works more than or equal 10 hours per week on "AL Rabwah" project.
5. Find the names of the employees who directly supervised with Kamel Mohamed.
6. Retrieve the names of all employees and the names of the projects they are working on, sorted by the project name.
7. For each project located in Cairo City , find the project number, the controlling department name ,the department manager last name ,address and birthdate
8. Display All Data of the managers
9. Display All Employees data and the data of their dependents even if they have no dependents

### Bouns

Display results of the following two statements and explain what is the meaning of @@AnyExpression

```
select @@VERSION
```

```
select @@SERVERNAME
```