**­­Day 3 Lab Assignments**

1. Try Connecting to SQL Server Using Windows authentication and using SQL server authenication.
2. Attach AdventureWorks database.
3. Create New solution and name it Day1\_lab, and save all following queries on it each query on separete sql file.
4. Display all the data from the Employee table (HumanResources Schema)
5. Display the Employee National ID, LoginID, JobTitle from the Employee table (HumanResources Schema) as a report to your manager.
6. Display the Contact Title,FirstName and LastName for those holding Title ‘Ms” OR LastName=’Antrim’
7. Display the Contact Title, FirstName,LastName who is not holding Title ‘Ms”.
8. Display all Contacts with a Title ‘Ms.’ & a FirstName ‘Catherine’.In addition to displaying anyone else with a LastName ‘Adams’ regardless of his/her Title and FirstName.
9. Display the SalesOrderID, ShipDate of the SalesOrderHearder table (Sales schema) to designate SalesOrders that occurred within the period ‘7/28/2002’ and ‘7/29/2002’
10. Display only Products(Production schema) with a StandardCost below $110.00 (show ProductID, Name only)
11. Display ProductID, Name if its weight is unknown (Null).
12. Display each product name along with its its sub categoray name and category name.
13. Display all Products with a Silver, Black, or Red Color (use in keyword).
14. Display any Product with a Name starting with the letter B.
15. Display the Sub Categories that contain products start with B letter (Use Sub Queries).
16. Calculate sum of TotalDue for each OrderDate in Sales.SalesOrderHeader table for the period between '7/1/2001' and '7/31/2001'
17. Display the Employees HireDate (note no repeated values are allowed)
18. Calculate the average of the unique ListPrices and category id in the Product table for each product category id which have average listPrice>1000
    1. Group by Category name instead of Category ID.
19. Display the Product Name and its ListPrice within the values of 100 and 120 The list should has the following format

"The [product name] is only! [List price]"

(the list will be sorted according to its ListPrice value)

**Bonus:**

1. Use sys schema to display columns’ names and data types on “Product” table in Adventureworks.
2. Search for ranking and pivot in T-SQL and explain using a demo.
3. Display all the data from the Employee table (HumanResources Schema)
4. Using Sql Server management studio query.
5. using command line (save your result set in external .txt file (output file)).
6. Using Excel sheet (from Excel).
7. Make required configuration for allowing remote connection, and try to connect to remote server (another server in your network).
8. Try to excute query using Powershell.
9. Make a batch file (\*.bat) that attaches any Database by code (use SQLCMD).
10. Run the following Query

UPDATE **Production**.ProductDescription

SETDescription='Chromoly steel\_High of defects'

WHERE **ProductDescriptionID** = **3**

Then write a query that displays any Product with underscore value in its Name.

1. Display the rowguid ,Name, SalesPersonID, Demographics in a newly created table named [store\_Archive](you will use Sales.Store table)

Check your database to see the new table, How many rows in it?

1. Try the previous query but without transferring the data?
2. using union statement, retrieve the today’s date in different styles.