

SQLServer Lab6

Notes:

- **Restore ITI and adventureworks DBs to Server you will find it in drive or online**

Use AdventureWorks DB

Part1:

1. Display the SalesOrderID, ShipDate of the SalesOrderHeader table (Sales schema) to designate SalesOrders that occurred within the period '7/28/2002' and '7/29/2014'
2. Display only Products(Production schema) 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. Run the following Query

```
UPDATE Production.ProductDescription  
SET Description = 'Chromoly steel_High of defects'  
WHERE ProductDescriptionID = 3
```

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

7. Calculate sum of TotalDue for each OrderDate in Sales.SalesOrderHeader table for the period between '7/1/2001' and '7/31/2014'

8. Display the Employees HireDate (note no repeated values are allowed)
9. Calculate the average of the unique ListPrices in the Product table
10. 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)

Part2:

11. Try to Create Login Named(ITIStud) who can access Only student and Course tables from ITI DB then allow him to select and insert data into tables and deny Delete and update
12. Search how we can import database table into excell sheet

Part3: Use ITI DB

1. Create a scalar function that takes date and returns Month name of that date.
2. Create a multi-statements table-valued function that takes 2 integers and returns the values between them.
3. Create a table valued function that takes Student No and returns Department Name with Student full name.
4. Create a scalar function that takes Student ID and returns a message to user
 - a. If first name and Last name are null then display '`First name & last name are null`'
 - b. If First name is null then display '`first name is null`'
 - c. If Last name is null then display '`last name is null`'
 - d. Else display '`First name & last name are not null`'

5. Create a function that takes integer which represents manager ID and displays department name, Manager Name and hiring date
 6. Create multi-statements table-valued function that takes a string
 - If string='first name' returns student first name
 - If string='last name' returns student last name
 - If string='full name' returns Full Name from student table
- Note: Use “ISNULL” function