**DB and Tables creation Lab**

1. Modify the tables as following:
   1. Add TelephoneNumber column to the employee table[programmatically]
   2. drop this column[programmatically]
2. Create the following schema and transfer the following tables to it
   1. Company schema
      1. Department table (Programmatically)
      2. Employee table (visually)
3. Delete the primary key of the Employee table. Why it will not work?
   1. Can a Primary key refer to Unique key instead of Foreign key?
4. Insert at least 3 records (Programatically) in each table from the data shown in the above image, and the other records you can insert them Visually.
5. Try update and Delete on the previous data.
   1. Testing Referential Integrity:
      1. Add new employee with EmpNo =11111 In the works\_on table [Is there error what is it].
      2. Change the employee number 10102 to 11111 in the works on table [is there error what is it].
      3. Modify the employee number 10102 in the employee table to 22222. [is there error what is it].
      4. Delete the employee with id 10102
6. Display the constraints for the Employee table using 2 different methods (Bonus)
7. Attach AdventureWorks database (Search for attaching a DB).
8. Display the Employee National ID, LoginID, JobTitle from the Employee table (HumanResources Schema) as a report to your manager.
9. Display the Contact Title,FirstName and LastName for those holding Title ‘Ms” OR LastName=’Antrim’
10. 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’
11. Display only Products(Production schema) with a StandardCost below $110.00 (show ProductID, Name only)
12. Display each product name along with its its sub categoray name and category name.
13. Display any Product with a Name starting with the letter B.
14. Display the Sub Categories that contain products start with B letter (Use Sub Queries).
15. Calculate sum of TotalDue for each OrderDate in Sales.SalesOrderHeader table for the period between '7/1/2001' and '7/31/2001'
16. Calculate the average of the unique ListPrices and category name in the Product table for each product category which have average listPrice>1000