**For the submission of your work:**

- Create a folder named **RollNo\_Name\_DBI202\_PaperNo**, e.g. se01245\_LongNT\_DBI202\_01. **Do not** create any subfolder in this folder. All file created will be located in the above folder.

- For each question, you are required to write a database script. Create a file with the name corresponding to the index of the question. For example, **for question 1**, we will create a file named **Q1.sql** and create a file **Q2.sql for question 2**. So, if you do 10 questions, your folder must contain **only** 10 files Q1.sql, Q2.sql, Q3.sql, Q4.sql, Q5.sql, Q6.sql, Q7.sql, Q8.sql, Q9.sql and Q10.sql.

- Do not use any commands having the database name such as create database, alter database, use [database name], GO, *etc*.

- Your response must contain only necessary commands for answering the question. Do not include any othe r command. For example, if you are required to create a trigger/procedure, then your response should contain only commands for creating the corresponding trigger/procedure; all commands for testing the created trigger/procedure are forbidden.

- On completion, import your work by browsing to the above folder.

**- Note that:**

**+ You could use only SQL Server, SQL Server Management Studio, Window explorer, Winrar, Winzip**

**+ If any of the previous requirements is not respected, your mark will be 0.**

**From the 2nd question**, you should use the database provided in the .sql file which has the following database diagram. Please, run the provided script to create tables and insert data into your database.

Question 1:

Diagram

Description automatically generated

**Question 2**: Select all employees having Salary greater than 9000 á follows:

Table, Excel

Description automatically generated

**Question 3:** Write a query to select JobID, JobTitle, min\_salary of all ‘Manager; jobs having the min\_salary greater than 5000; display the result in descending order of min\_salary then in ascending order of JobTitle for the jobs having the same min\_salary. Note that a job is called .Manager/ job if there is the word /Manager. In its Job Title.

Graphical user interface, table

Description automatically generated

**Question 4**: Write a query to display EmployeeID, FirstName, LastName, Salary, DepartmentName, StateProvince, CountryId of all employees having the Salary greater than 3000 and who currently work for departments in the ‘Washington’ state of the ‘US’ country as follows:

Table

Description automatically generated

**Question 5:** Write a query to display LocationID, StreetAddress, City, StateProvince, CountryID, NumberOfDepartments where NumberOfDepartments is the number of derpartments in each location; display the results in descending order of NumberOfDepartments then in ascending order of LocationID for locations having the same value of NumberOfDepartments as follows:


Table

Description automatically generated

**Question 6:**

**Write a query to display JobID, JobTitle, NumberOfEmployees of the jobs having the maximum number of employees (NumberOfEmployees) as follows:**

Graphical user interface, application

Description automatically generated

Question 7:

Write a query to display EmployeeID, FirstName, LastName, Salary, DepartmentID, DepartmentName, NumberOfSubordinates of each employee who manages at least one other employee or who has the Salary greater than 10000 where NumberOfSubordinates is the number of employees that he/she manages; display the result in descending order of NumberOfSubordinates then in ascending order of LastName for employees having the same NumberOfSubordinates as follows:

Table

Description automatically generated

**Question 10**: Write a query to remove from table Departments all department which has no employees. After removing these rows, the table Departments should be as follows:

Table

Description automatically generated with medium confidence

NORTHWIND

9,10,11,12, 21, 22, 23,24, 32,33,34,35

Lab4