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Assignments: Programming SQL Server

# Scenario

Two tables, called tb\_Employee and tb\_Department, in a database, called Companydetails, contain a list of records with details for each employee in a company, and a list of records with details for each department within the company, respectively

Below are the structure



# Excercise

Do the tasks below in the Company database

| **Task list** | |
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| **Number** | **Instructions** |
| 1 | Create two tables as the structure above |
| 2 | Insert data into tb\_Department table, including IT, HR, Finance, Graphic Design, Training, Sales  Note: Try to use different ways to insert data |
| 3 | Create a query that allows you to view each employee's first name, their surname, and the name of the department that they currently work in. |
| 4 | Create a query that updates the details of the employee whose identification number is 10. Their new manager's and department identification numbers should be updated to 21 and 3 respectively. |
| 5 | Create a query that adds details for a new employee who will have the identification number 298. Her name is Melissa Mitchell. Her phone number is 212-555-5656. Her manager's identification number is 3. The identification number of the department she will be working in is 1. Her address is 1245 Claremont Street, which is in the city of Redmond, the postal code for which is 98054. The province code is WA. Her date of birth is 05/21/1978. She was hired on 05/01/2006, and she hasn't missed any work due to vacations or sickness. |
| 6 | Create a table to backup information of employee (it has structure the same as tb\_Employee.) Its name is tb\_Employee\_BK.  Create a trigger that move information of employee who deleted to the backup table. |
| 7 | Create a query that deletes the records of any employee who has taken more than 50 days vacation from the tb\_Employee table. |
| 8 | Create a query that allow you to view all employees that had ever worked in company including employees who are working or quitted. |
| 9 | Create a function that returns the total number of employee in the department when user provides department id. |
| 10 | Create a procedure that allows you to view the employee’s information including employee id, employee’s name (first name + last name), the name of manager and the name of department when user provides employee id. |
| 11 | Create an ETL to show employee name and his level in company as following   * Level 0: is top manager and no report to anyone * Level 1: report to manager at level 0 * Level 2: report to manager at level 1 * Level 3: report to manager at level 2 * … |