Use iti :

**1) Data Manipulating Language:**

1. Insert your personal data to the Student table as a new Student in department number 30.

insert into Student

values(20,'Mohamed','Ashraf','Sharkia',22,30,null)

1. Insert Instructor with personal data of your friend as new Instructor in department number 30, Salary= 4000, but don’t enter any value for bonus.

insert into Instructor (Ins\_Id,Ins\_Name,Ins\_Degree,Salary,Dept\_Id)

values(16,'Moaaz',null,4000,30)

1. Upgrade Instructor salary by 20 % of its last value.

update Instructor

set Salary=Salary+(Salary\*0.2)

**2) Restore MyCompany DB then**

**Try to create the following Queries:**

1. Display all the employees Data.

select \*

from Employee

1. Display the employee First name, last name, Salary and Department number.

select Fname,Lname,Salary,Dno

from Employee

1. Display all the projects names, locations and the department which is responsible about it.

select Pname,Plocation,Dnum

from Project

1. If you know that the company policy is to pay an annual commission for each employee with specific percent equals 10% of his/her annual salary .Display each employee full name and his annual commission in an ANNUAL COMM column (alias).

select Fname+' '+Lname as fullname,Salary\*12\*0.10 as "ANNUAL COMM"

from Employee

1. Display the employees Id, name who earns more than 1000 LE monthly.

select SSN,Fname+' '+Lname as fullname

from Employee

where Salary>1000

1. Display the employees Id, name who earns more than 10000 LE annually.

select SSN,Fname+' '+Lname as fullname

from Employee

where Salary\*12>10000

* 1. Display the names and salaries of the female employees

select Fname,Salary

from Employee

where Sex='F'

1. Display each department id, name which managed by a manager with id equals 968574.

select Dname,Dnum

from Departments

where MGRSSN=968574

1. Dispaly the ids, names and locations of the pojects which controled with department 10.

select Pnumber,Pname,Plocation

from Project

where Dnum=10

**3) Restore iti DB then**

1. Retrieve number of students who have a value in their age.

select count(\*)

from Student

where St\_Age is not null

1. Get all instructors Names without repetition

select distinct Ins\_Name

from Instructor

1. Display instructor Name and Department Name

Note: display all the instructors if they are attached to a department or not

select I.Ins\_Name Instructor\_Name , D.Dept\_Name Department\_Name

from Instructor I left join Department D

on I.Dept\_Id=D.Dept\_Id

1. Display student full name and the name of the course he is taking

For only courses which have a grade

select S.St\_Fname+ ' ' +S.St\_Lname Full\_Name,C.Crs\_Name Course\_Name

from Student S join Stud\_Course SC

on S.St\_Id=SC.St\_Id

join Course C

on SC.Crs\_Id=C.Crs\_Id

where SC.Grade is not null

1. Display number of courses for each topic name

select T.Top\_Name,count(\*) Num\_of\_Courses

from Topic T join Course C

on T.Top\_Id=C.Top\_Id

group by t.Top\_Name

1. Select Student first name and the data of his supervisor

select STD.St\_Fname Stud\_Name,SPR.St\_Fname Super\_Name,SPR.St\_Address Super\_Address,SPR.St\_Age Super\_Age

from Student STD join Student SPR

on STD.St\_super=SPR.St\_Id

**Bouns**

Display results of the following two statements and explain what is the meaning of @@AnyExpression

-select @@VERSION 🡪 returns the SQL Server version currently running

-select @@SERVERNAME 🡪 returns the name of the SQL Server instance

-@@AnyExpression 🡪 It refers to any predefined system variable that starts with @@ and is used to access advanced information inside SQL Server

-- self study report