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| -- Wroking on Company\_SD Database |
|  | ------------------------------------- |
|  | --1.Display all the employees Data |
|  | SELECT \* |
|  | FROM [dbo].[Employee] |
|  | ----------------------------------------------------------------------------- |
|  | --2.Display the employee First name, last name, Salary and Department number |
|  | SELECT Fname,Lname,Salary,Dno |
|  | FROM [dbo].[Employee] |
|  | ------------------------------------------------------------------------------ |
|  | --3.Display all the projects names, locations and the department which is responsible about it. |
|  | SELECT Pname,Plocation,Dnum |
|  | FROM [dbo].[Project] |
|  | ---------------------------------------------------------------------------------------------- |
|  | /\*4.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 [Full name], (Salary\*12)\*.1 as [ANNUAL COMM] |
|  | from [dbo].[Employee] |
|  | --------------------------------------------------------------------------------- |
|  | --5.Display the employees Id, name who earns more than 1000 LE monthly. |
|  | SELECT SSN,Fname,Salary |
|  | FROM [dbo].[Employee] |
|  | WHERE Salary >1000; |
|  | ------------------------------------------------------------------------- |
|  | --6.Display the employees Id, name who earns more than 10000 LE annually |
|  | SELECT SSN,Fname,Salary |
|  | FROM [dbo].[Employee] |
|  | WHERE (Salary\*12)>10000; |
|  | -------------------------------------------------------------------------- |
|  | --7.Display the names and salaries of the female employees |
|  | SELECT Fname,Salary |
|  | FROM [dbo].[Employee] |
|  | WHERE Sex='F' |
|  | ------------------------------------------------------------------------ |
|  | --8.Display each department id, name which managed by a manager with id equals 968574. |
|  | SELECT Dnum,Dname |
|  | from [dbo].[Departments] |
|  | WHERE MGRSSN=968574 |
|  | ---------------------------------------------------------------------------- |
|  | --9.Dispaly the ids, names and locations of the pojects which controled with department 10. |
|  | SELECT Pnumber,Pname,Plocation |
|  | FROM [dbo].[Project] |
|  | WHERE Dnum=10 |
|  | -------------------------------------------------------------------------------- |
|  | --10. Display the Department id, name and id and the name of its manager. |
|  | SELECT d.Dnum,d.Dname,e.Fname as [Manger Name] |
|  | FROM [dbo].[Departments] d,[dbo].[Employee] e |
|  | WHERE d.MGRSSN=e.SSN |
|  | ------------------------------------------------------------- |
|  | --11.Display the name of the departments and the name of the projects under its control. |
|  | SELECT d.Dname,p.Pname |
|  | FROM [dbo].[Departments] d,[dbo].[Project] p |
|  | WHERE d.Dnum=p.Dnum |
|  | Group BY d.Dname,p.Pname |
|  | ------------------------------------------------------------------------------------- |
|  | --12.Display the full data about all the dependence associated with the name of the employee they depend on him/her |
|  | SELECT d.\*,e.Fname as [employee name] |
|  | FROM [dbo].[Dependent] d,[dbo].[Employee] e |
|  | where e.SSN=d.ESSN |
|  | -------------------------------------------------------------------------------------- |
|  | --13.Display the Id, name and location of the projects in Cairo or Alex city. |
|  | SELECT Pnumber,Pname,Plocation |
|  | FROM [dbo].[Project] |
|  | WHERE City in('Alex','Cairo') |
|  | ------------------------------------------------------------------------------------------ |
|  | --14.Display the Projects full data of the projects with a name starts with "a" letter. |
|  | SELECT \* |
|  | FROM [dbo].[Project] p |
|  | WHERE p.Pname LIKE 'a%' |
|  | ------------------------------------------------------ |
|  | --15.display all the employees in department 30 whose salary from 1000 to 2000 LE monthly |
|  | SELECT \* |
|  | FROM [dbo].[Employee] e |
|  | WHERE e.Dno=30 AND Salary BETWEEN 1000 AND 2000 |
|  | ------------------------------------------------------------------ |
|  | --16.Retrieve the names of all employees in department 10 who works more than or equal 10 hours per week on "AL Rabwah" project. |
|  | SELECT e.Fname |
|  | FROM [dbo].[Employee] e, [dbo].[Project] p,[dbo].[Works\_for] w |
|  | WHERE e.SSN=w.ESSn AND p.Pnumber=w.Pno AND e.Dno=10 AND w.Hours>= 10 AND p.Pname='AL Rabwah' |
|  | -------------------------------------------------------------------------------------------------- |
|  | --17.Find the names of the employees who directly supervised with Kamel Mohamed |
|  | SELECT e.Fname |
|  | FROM [dbo].[Employee] e ,[dbo].[Employee] s |
|  | WHERE s.Superssn =e.SSN AND s.Fname='Kamel' AND s.Lname='Mohamed' |
|  | ------------------------------------------------------------------------------------- |
|  | --18.Retrieve the names of all employees and the names of the projects they are working on, sorted by the project name |
|  | SELECT e.Fname , p.Pname |
|  | FROM [dbo].[Employee] e , [dbo].[Project] p,[dbo].[Works\_for] w |
|  | WHERE e.SSN=w.ESSn and p.Pnumber=w.Pno |
|  | ORDER BY p.Pname |
|  | --------------------------------------------------------------------------------------------- |
|  | /\*19.For each project located in Cairo City , find the project number, the controlling department name ,the department manager last name |
|  | ,address and birthdate.\*/ |
|  | SELECT p.Pname,d.Dname,e.Lname as [Manger Lname],e.Address as [Manger Address],e.Bdate as [Manger Bdate] |
|  | FROM [dbo].[Project] p ,[dbo].[Departments] d , [dbo].[Employee] e |
|  | WHERE p.Dnum=d.Dnum AND d.MGRSSN=e.SSN AND p.City='Cairo' |
|  | ------------------------------ |
|  | --20.Display All Data of the mangers |
|  | SELECT e.\* |
|  | FROM [dbo].[Employee] e ,[dbo].[Departments] d |
|  | WHERE e.SSN=d.MGRSSN |
|  | ------------------------------------------------------------------- |
|  | --21.Display All Employees data and the data of their dependents even if they have no dependents |
|  | SELECT e.\*,d.\* |
|  | FROM [dbo].[Employee] e LEFT OUTER JOIN [dbo].[Dependent] d |
|  | ON e.SSN=d.ESSN |
|  | --------------------------------- |
|  | --22.Insert your personal data to the employee table as a new employee in department number 30, SSN = 102672, Superssn = 112233, salary=3000. |
|  | INSERT INTO [dbo].[Employee] |
|  | VALUES('Abdelmoneim','Salah',102672,'1995-08-28','Helwan','M',3000,112233,30) |
|  | ---------------------------------------------------------------- |
|  | /\*23.Insert another employee with personal data your friend as new employee in department number 30, SSN = 102660, |
|  | but don’t enter any value for salary or manager number to him.\*/ |
|  | INSERT INTO [dbo].[Employee] (Fname,Lname,SSN,Bdate,Address,Sex,Dno) |
|  | VALUES('Abdelrhamn','Adnan',102660,'1995-07-20','Giza','M',30) |
|  | ------------------------------------------------------------------------------ |
|  | --24.Upgrade your salary by 20 % of its last value. |
|  | UPDATE [dbo].[Employee] |
|  | SET Salary=Salary+.2\*Salary |
|  | WHERE SSN=102672 |
|  | ---------------------------------------- |