* Assignment-1 *

* Employee detail table

No	Employee ID	FirstN.	LastN.	Salary	Joining Date	Dept	Gender
1	1	Vikas	Ahlawat	600000.0	2013-2-15	IT	Male
2	2	Nikita	Jain	530000.0	2014-1-9	HR	Female
3	3	Ashish	Kumar	1000000.0	2014-1-9	IT	Male
4	4	Nikhil	Sharma	480000.0	2014-1-9	HR	Male
5	5	anish	Kadian	500000.0	2014-1-9	payroll	male

* Project detail table

Project Detail ID	Employee ID	ProjectName
1	1	Task Track
2	1	CLP
3	1	Survey management
4	2	HR management
5	3	Task Track
6	3	GRS
7	3	DDS
8	4	HR management
9	6	GL management

1. Write a query to get all employee detail From "Employee Detail" table.

```
Select * From Employee Detail;
```

2. Write a query to get ~~all employee detail~~ only 'FirstName' column from "Employee Detail" table.

```
Select FirstName from Employee Detail;
```

3. Write a query to get FirstName in lower case as "FirstName".

```
Select LOWER (FirstName) As "FirstName"
  from Employee Detail;
```

4. Write a query to get First Name in Upper case as "First Name".

```
Select UPPER (FirstName) As "FirstName"
  From Employee Detail;
```

5. Write a query for combine Firstname & lastname & display it as "Name" (include space between)

```
Select CONCAT (FirstName, ' ', LastName)
  As "Name" From Employee Detail;
```

6. Get all employee detail from Employee Detail table whose "FirstName" start with letter 'a'.

```
Select * From Employee Detail
  where FirstName Like 'a%';
```

7. Get all employee detail from Employee Detail table whose "FirstName" ~~start with~~ contains 'k'.

```
Select * From Employee Detail
  where FirstName Like '%k%';
```

8. Get all unique "Department" From employee Detail table.

```
Select Distinct Department
from EmployeeDetail;
```

9. Get the highest "salary" from employee detail table.

```
Select Max(salary) As highest Salary from
    Employee Detail;
```

10. Write query to get the dept. and dept wise total (sum) salary from "Employee Detail" table.

```
Select Department, Sum(salary) As TotalSalary
from EmployeeDetail Group By Department;
```

11. Write query to get the dept. and dept. wise total (sum) salary display it in ascending order acc. to salary.

```
Select Department, Sum(Salary) As Total Salary
from ~~Total Salary~~ Employee Detail
Groupby Department Order by Total Salary ASC;
```

12. Get employee name, project name order by firstname from "Employee detail" and "Project detail" for employee assigned project.

```
Select E.FirstName, P.ProjectName from
    EmployeeDetail
E Inner Join projectDetail P On
E. EmployeeID Order by E.FirstName;
```

13. Get employee name, project name order by firstname from "Employee Detail" and "project detail" for all employee even they have not assigned project.

```
Select E. FirstName,
Coalesce (P. ProjectName, 'No Project Assigned')
As ProjectName from Employee Detail
E Left Join Project Detail P ON
 E. EmployeeID = P. EmployeeID
ORDER By E. FirstName;
```

14. Get employee name, project name order by firstname from "Employee detail" and "ProjectDetail" for all employee if project is not assigned then display "-no Project Assigned".

```
Select E. FirstName,
 Coalesce (P. Projectname, 'No project Assigned')
As Projectname from Employee Detail
 E. Left Join Project Detail P ON
 E. EmployeeID = P. EmployeeID
 order by E. First name;
```

15. Get all project name even they have not matching any employeeid, in left table, order by firstname from "Employee Detail" and "Project Detail".

```
Select P. Projectname from Projectpetail P
Left Join EmployeeDetail E on
E. EmployeeID = P. EmployeeID
 Orderby E. FirstName;
```

16. TBL_1

Sr.	ID
1	1
2	1

TBL_2

Sr.	ID
1	1
2	1
3	1

Table_1

Sr.	ID	Name
1	1	Vikas Ahlawat
2	2	Sachin Aggarwal
3	3	Manoj Kumar

Table_2

Sr.	ID	Name
1	1	Vikas Ahlawat
2	4	Sanjay Kumar
3	5	Sachin Aggarwal
4	3	Sandeep Kumar

16. Would be the output of following query (INNER Join)

```
Select T1.ID, T2.ID from TBL_1 T1
    inner join
TBL_2 T2 ON T1.ID = T2.ID
```

Returns only rows where T1.ID and T2.ID match in both tables.

17. What would be the output of following query (Left outer)

```
Select T1.ID, T2.ID from TBL_1 T1 Left Outer Join
    TBL_2 T2 ON T1.ID = T2.ID
```

Returns all records from TBL_1 & matching records from TBL_2. If no match then null.

18. What would be o/p of following query (Right Outer Join)
Select T1.ID, T2.ID from TBL-1 T1 Right outer Join TBL-2 T2 ON T1.ID = T2.ID
Returns only rows where ~~A.ID = B.ID~~ TBL-2 all records from TBL-1 and matching records from TBL-2. If no match then will be null.

19. Select A.[ID], A.[Name], B.[ID], B.[Name] From [Table_1] A inner join [Table_2] B ON A.ID = B.ID
Returns only rows where A.ID = B.ID, means common records in both table.

20. Select A.[ID], A.[Name], B.[ID], B.[Name] from [Table_1] A inner join [Table_2] B ON A.ID != B.ID.
Return all combination where A.ID is not equal to B.ID.