**SQL CAPSTONE PROJECT**

create table EmployeeDetail(EmployeeID int, FirstName varchar(max), LastName varchar(max),Salary int, JoiningDate varchar(max), Department

varchar(max),Gender varchar(max))

insert into EmployeeDetail values(1,'Vikas','Ahlawat',600000,'2013-02-12','IT','Male'),(2,'nikita','Jain',530000,'2013-02-13','HR',

'Female'),(3,'Ashish','Kumar',1000000,'2013-02-14','IT','Male'),(4,'Nikhil','Sharma',480000,'2013-02-15','HR','Male'),(5,'anish','kadian',500000,'2013-02-16','Paroll','Male')

1) Write a query to get all employee detail from "EmployeeDetail" table

select\* from EmployeeDetail

2) Write a query to get only "FirstName" column from "EmployeeDetail" table

Select FirstName from EmployeeDetail

3) Write a query to get FirstName in upper case as "First Name".

select upper(FirstName)'First Name' from EmployeeDetail

4) Write a query for combine FirstName and LastName and display it as "Name" (also include white space between first name & last name)

select CONCAT(FirstName,' ',LastName)'Name' from EmployeeDetail

5)Select employee detail whose name is "Vikas”

select\* from EmployeeDetail where FirstName='Vikas'

1. Get all employee detail from EmployeeDetail table whose "FirstName" start with latter 'a'.

select\* from EmployeeDetail where FirstName LIKE 'A%'

7)Get all employee details from EmployeeDetail table whose "FirstName" end with 'h'

select\* from EmployeeDetail Where FirstName LIKE '%H'

8)Get all employee detail from EmployeeDetail table whose "FirstName" start with any single character between 'a-p'

select\* from EmployeeDetail Where FirstName BETWEEN 'A' AND'P'

9) Get all employee detail from EmployeeDetail table whose "FirstName" not start with any single character between 'a-p'

select\* from EmployeeDetail Where FirstName NOT BETWEEN 'A' AND'P'

10) Get all employee detail from EmployeeDetail table whose "Gender" end with 'le' and contain 4 letters. The Underscore(\_) Wildcard Character represents any single character

select\* from EmployeeDetail Where Gender like'\_\_le'

11) Get all employee detail from EmployeeDetail table whose "FirstName" start with 'A' and contain 5 letters

select\* from EmployeeDetail where FirstName LIKE 'A\_\_\_\_'

12)Get all unique "Department" from EmployeeDetail table

select distinct Department from EmployeeDetail

13)Get the highest "Salary" from EmployeeDetail table.

select max(salary) from EmployeeDetail

14)Get the lowest "Salary" from EmployeeDetail table

select min(salary) from EmployeeDetail

15)Get only Year part of "JoiningDate"

select DATEPART(YEAR,JoiningDate) FROM EmployeeDetail

16)Get only Month part of "JoiningDate”

select DATEPART(MONTH,JoiningDate) FROM EmployeeDetail

17)Get system date

select GETDATE()

18)Get UTC date.

select GETUTCDATE()

19)Get the first name, current date, joiningdate and diff between current date and joining date in months.

select FirstName,GETDATE()[current date],JoiningDate,DATEDIFF(MM,JoiningDate,GETDATE()) AS[Total Months]from EmployeeDetail

20)Get the first name, current date, joiningdate and diff between current date and joining date in days.

select FirstName,GETDATE()[current date],JoiningDate,DATEDIFF(DD,JoiningDate,GETDATE()) AS[Total Days]from EmployeeDetail

21)Get all employee details from EmployeeDetail table whose joining year is 2013

select\* from EmployeeDetail where DATEPART(YYYY,JoiningDate)='2013'

22)Get all employee details from EmployeeDetail table whose joining month is Feb(2)

select\* from EmployeeDetail where DATEPART(MM,JoiningDate)='2'

23)Get how many employee exist in "EmployeeDetail" table

Select count(\*) ' No. of Employee'from EmployeeDetail

24)Select only one/top 1 record from "EmployeeDetail" table

select TOP 1\*From EmployeeDetail

25)Select all employee detail with First name "Vikas","Ashish", and "Nikhil".

select\*from EmployeeDetail where FirstName in ('Vikas','Ashish','Nikhil')

26)Select first name from "EmployeeDetail" table after removing white spaces from right side

Select RTRIM (FirstName)'FirstName'from EmployeeDetail

27)Select first name from "EmployeeDetail" table after removing white spaces from left side

Select LTRIM (FirstName)'FirstName'from EmployeeDetail

28)Display first name and Gender as M/F.(if male then M, if Female then F)

select FirstName,CASE WHEN GENDER='MALE'THEN 'M'WHEN GENDER='FEMALE'THEN'F'END AS[GENDER] From EmployeeDetail

29)Select first name from "EmployeeDetail" table prifixed with "Hello

select 'Hello' + FirstName from Employeedetail

30)Get employee details from "EmployeeDetail" table whose Salary greater than 600000

select\* from EmployeeDetail where Salary>600000

31)Get employee details from "EmployeeDetail" table whose Salary less than 700000

select\* from EmployeeDetail where Salary<700000

create table projectdetail(ProjectDetailID int,EmployeeDetailID int,ProjectName varchar(max))

insert into projectdetail values (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')

32)Give records of ProjectDetail table

select\*from projectdetail

33)Write the query to get the department and department wise total(sum) salary from "EmployeeDetail" table.

select Department,SUM(salary)'Total Salary' from EmployeeDetail Group by Department

34)Write the query to get the department and department wise total(sum) salary, display it in ascending order according to salary.

select Department,SUM(salary)'Total Salary' from EmployeeDetail Group by Department ORDER BY SUM(SALARY)ASC

35)Write the query to get the department and department wise total(sum) salary, display it in descending order according to salary

select Department,SUM(salary)'Total Salary' from EmployeeDetail Group by Department ORDER BY SUM(SALARY)DESC

36)Write the query to get the department, total no. of departments, total(sum) salary with respect to department from "EmployeeDetail" table.

select Department,Count(\*)' Total NO. of Departments',SUM(SALARY)'Total Salary' from EmployeeDetail GROUP BY Department

37)Get department wise average salary from "EmployeeDetail" table order by salary ascending

select Department,AVG(Salary)'Average Salary' from EmployeeDetail GROUP BY Department order by AVG(salary)ASC

38) Get department wise maximum salary from "EmployeeDetail" table order by salary ascending

select Department,MAX(Salary)'Highest Salary' from EmployeeDetail GROUP BY Department order by MAX(salary)ASC

39)Get department wise minimum salary from "EmployeeDetail" table order by salary ascending.

select Department,MIN(Salary)'Lowest Salary' from EmployeeDetail GROUP BY Department order by MIN(salary)ASC

40)Get department wise minimum salary from "EmployeeDetail" table order by salary ascending

Join both the table that is Employee and ProjectDetail based on some common parameter.

select EmployeeDetail.FirstName,projectdetail.ProjectName from EmployeeDetail inner join projectdetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID order by FirstName

41)Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for those employee which have assigned project already.

select EmployeeDetail.FirstName,projectdetail.ProjectName from EmployeeDetail join projectdetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID order by FirstName

42)Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for all employee even they have not assigned project.

select EmployeeDetail.FirstName,projectdetail.ProjectName from EmployeeDetail Left join projectdetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID order by FirstName

43)Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for all employee if project is not assigned then display "-No Project Assigned"

select FirstName,ISNULL(ProjectName,'-no project assigned')'ProjectName' from EmployeeDetail left join ProjectDetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID order by FirstName

44)Get all project name even they have not matching any employeeid, in left table, order by firstname from "EmployeeDetail" and "ProjectDetail

Select FirstName,ProjectName From EmployeeDetail right join Projectdetail on

EmployeeID = EmployeeDetailID order b FirstName

45)Get complete record (employeename, project name) from both tables ([EmployeeDetail],[ProjectDetail]), if no match found in any table then show NULL

select EmployeeDetail.FirstName,projectdetail.ProjectName from EmployeeDetail full outer join projectdetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID order by FirstName

46)Write down the query to fetch EmployeeName & Project who has assign more than one project

select Employeedetail.EmployeeID,Employeedetail.FirstName,projectdetail.ProjectName from EmployeeDetail inner join projectdetail

on EmployeeDetail.EmployeeID=projectdetail.EmployeeDetailID where EmployeeID in (select EmployeeDetailID from projectdetail Group by

EmployeeDetailID Having Count(\*)>1)

47)Apply Cross Join in Both the tables

select \* from EmployeeDetail

cross join

projectdetail