1) Get all Employee details from the Employee table?

SELECT \*

FROM employee

2) Get EmployeeId, FirstName, LastName from Employee table?

SELECT employeeId, FirstName, LastName

FROM employee

3) Get FirstName from Employee table using alias name “Employee Name”

SELECT FirstName AS "Employee Name"

FROM employee

4) Get FirstName from Employee table in upper case?

SELECT UPPER(FirstName) AS EmployeeName

FROM employee

5) Get FirstName from Employee table in lower case?

SELECT LOWER(FirstName) AS EmployeeName

FROM employee

6) Get unique Department from Employee table?

SELECT DISTINCT Department

FROM employee

7) Select first 3 characters of FirstName from Employee table.

SELECT SUBSTRING(FirstName,1,3)

FROM employee

8) Get position of 'k' in name 'Vikas' from Employee table

SELECT CHARINDEX('k','Vikas') AS Position

FROM employee

WHERE FirstName = 'Vikas'

9) Get FirstName from Employee table after removing white spaces from right side?

SELECT RTRIM(FirstName) AS FirstName

FROM employee

10) Get FirstName from Employee table after removing white spaces from left side?

SELECT LTRIM(FirstName) AS FirstName

FROM employee

11) Get length of FirstName from Employee table?

SELECT LEN(FirstName) AS FirstName

FROM employee

12) Get FirstName from Employee table after replacing 'V' with 'VV'

SELECT REPLACE(FirstName,'V','VV') AS FirstName

FROM employee

13) Get FirstName and LastName as single column from Employee table separated by

SELECT CONCAT(FirstName,' ',LastName) AS FullName

FROM employee

14) Get FirstName , Joining year, Joining Month and Joining Date from Employee table ?

SELECT FirstName, YEAR(JoiningDate) AS 'Joining Year',

MONTH(JoiningDate) AS 'Joining Month', DAY(JoiningDate) AS 'Joining Day'

FROM employee

15) Get all employee details from the Employee table order by FirstName Ascending?

SELECT \*

FROM employee

ORDER BY FirstName

16) Get all employee details from the Employee table order by FirstName descending?

SELECT \*

FROM employee

ORDER BY FirstName DESC

17) Get all employee details from the Employee table order by FirstName Ascending and Salary descending?

SELECT \*

FROM employee

ORDER BY FirstName, Salary DESC

18) Get employee details from Employee table whose employee name is “Vikas”?

SELECT \*

FROM employee

WHERE FirstName = 'Vikas'

19) Get employee details from Employee table whose employee name are “Vikas” and “Lalit”?

SELECT \*

FROM employee

WHERE FirstName IN ('Vikas', 'Lalit')

20) Get employee details from Employee table whose employee name are not “Vikas” and “Lalit”?

SELECT \*

FROM employee

WHERE FirstName NOT IN ('Vikas', 'Lalit')

21) Get employee details from Employee table whose FirstName starts with 'V'

SELECT \*

FROM employee

WHERE FirstName LIKE 'V%'

22) Get employee details from Employee table whose FirstName contains 'k'

SELECT \*

FROM employee

WHERE FirstName LIKE '%k%'

23) Get employee details from Employee table whose FirstName ends with 's'

SELECT \*

FROM employee

WHERE FirstName LIKE '%s'

24) Get employee details from Employee table whose Salary is greater than 70000?

SELECT \*

FROM employee

WHERE Salary > 70000

25) Get employee details from Employee table whose Salary is less than 70000?

SELECT \*

FROM employee

WHERE Salary < 70000

26) Get employee details from Employee table whose Salary is between 50000 and 70000?

SELECT \*

FROM employee

WHERE Salary BETWEEN 50000 AND 70000

27) Get employee details from Employee table whose joining year is “2015”?

SELECT \*

FROM employee

WHERE YEAR(JoiningDate) = '2015'

28) Get employee details from Employee table whose joining month is “February”?

SELECT \*

FROM employee

WHERE MONTH(JoiningDate) = 02

29) Get employee details from Employee table who joined after 20th June, 2015?

SELECT \*

FROM employee

WHERE JoiningDate > '2015-06-20'

30) Get employee details from Employee table who joined before 20th June, 2015?

SELECT \*

FROM employee

WHERE JoiningDate < '2015-06-20'

31) Get FirstName, JoiningDate and IncentiveDate from Employee and Incentives table?

SELECT FirstName, JoiningDate, IncentiveDate

FROM employee, Incentives

WHERE employeeid = emprefid

32) Get Last Name from Employee table after replacing special character (e.g. % (if any)) with white space?

SELECT REPLACE(LastName,'%',' ') AS LastName

FROM employee

33) Get department, total salary with respect to a department from Employee table?

SELECT SUM(salary) AS TotalSalary, Department

FROM employee

GROUP BY Department

34) Get Department, TotalSalary with respect to a department from Employee table order by total salary descending?

SELECT SUM(salary) AS TotalSalary, Department

FROM employee

GROUP BY Department

ORDER BY TotalSalary DESC

35) Get department, no of employees in a department, salary with respect to a department from Employee table order by salary descending?

SELECT COUNT(\*) AS NumberOfEmployees,

SUM(Salary) AS TotalSalary,Department

FROM employee

GROUP BY Department

ORDER BY TotalSalary DESC

36) Get department wise average salary from employee table order by salary ascending?

SELECT Department, AVG(salary) AS AvgSalary

FROM employee

GROUP BY Department

ORDER BY AvgSalary

37) Get department wise maximum salary from Employee table order by salary ascending?

SELECT Department, MAX(salary) AS MaxSalary

FROM employee

GROUP BY Department

ORDER BY MaxSalary

38) Get department wise minimum salary from Employee table order by salary ascending?

SELECT Department, MIN(salary) AS MINSalary

FROM employee

GROUP BY Department

ORDER BY MINSalary

39) Select number of employees joined with respect to year and month from Employee table?

SELECT Count(\*) AS NumberOfemp, YEAR(JoiningDate) AS YearJD, MONTH(JoiningDate) AS MonthJD

FROM employee

GROUP BY YEAR(JoiningDate), MONTH(JoiningDate)

40) Select department, salary with respect to a department from Employee table where salary greater than 60000 order by Salary descending

SELECT SUM(Salary) TotalSalary, Department

FROM employee

WHERE Salary > 60000

GROUP BY Department

ORDER BY TotalSalary DESC

41) Select FirstName, incentive amount from Employee and incentives table for those employees who have incentives?

SELECT FirstName, IncentiveAmount

FROM employee, Incentives

WHERE employeeId = emprefid

42) Select First Name, incentive amount from Employee and incentives table for those employees who have incentives and incentive amount greater than 5000

SELECT FirstName, IncentiveAmount

FROM employee, Incentives

WHERE employeeId = emprefid AND IncentiveAmount > 5000

43) Select First Name, incentive amount from Employee and Incentives table for all Employees even if they didn't get incentives?

SELECT FirstName, IncentiveAmount

FROM employee LEFT JOIN

Incentives ON employeeId = emprefid

44) Select First Name, incentive amount from Employee and Incentives table for all Employees even if they didn't get incentives and set incentive amount as 0 for those employees who didn't get Incentives?

45) Select First Name, incentive amount from Employee and incentives table for all Employees who got incentives using right join?

SELECT FirstName, IncentiveAmount

FROM Incentives RIGHT JOIN

employee ON employeeId = emprefid

46) Select max incentive with respect to employee from Employee and incentives table using sub query?

47) Select TOP 2 salary from Employee table?

SELECT TOP 2 Salary AS TopTwoSalary

FROM employee

48) Select second, third, fourth or nth highest/maximum salary of employee from Employee table?

49) Select FirstName, Last Name from Employee table as separate rows?

SELECT FirstName FROM employee

UNION

SELECT LastName FROM employee

50) What is the difference between UNION and UNION ALL?

* UNION gives us only distinct records, UNION ALL gives us all the records including duplicate records.
* UNION is slower than UNION ALL, because UNION needs to sort the distinct records from the query.

51) Select Employee details from employee table if data exists in incentive table?

SELECT \*

FROM employee

WHERE EXISTS (SELECT \* FROM incentives)

52) Get Employee Id's of those employees who didn't receive incentives without using sub query?

53) Select 20 % of salary from Vikas, 10% of Salary for Anil and for other 15 % of salary from employee table?

54) Select Banking as 'Bank Dept', Insurance as 'Insurance Dept' and Services as 'Services Dept' from employee table?

SELECT Department,

CASE Department

WHEN 'BANKING' THEN 'Bank Dept'

WHEN 'INSURANCE' THEN 'Insurance Dept'

WHEN 'SERVICES' THEN 'Services Dept'

END 'Dept'

FROM employee

55) Write a query to rank employees based on their incentives for a month?

56) Update Incentive Amount to 9000 in incentive table where employee First Name is Vishal in Employee table?

UPDATE incentives

SET IncentiveAmount = 9000

WHERE emprefid =

(SELECT employeeid FROM employee WHERE FirstName = 'Vikas')

57) Write syntax to create Employee table?

CREATE TABLE Employee

(employeeID int,

FirstName varchar(50),

LastName varchar(50),

salary money,

JoiningDate date,

Department Varchar(40))

58) Write syntax to set EmployeeId as primary key in Employee table?

CREATE TABLE Employee

(employeeID int PRIMARY KEY,

FirstName varchar(50),

LastName varchar(50),

salary money,

JoiningDate date,

Department Varchar(40))

59) Write SQL syntax to set 2 fields(EmployeeId ,FirstName) as primary key in Employee table

60) Write syntax to drop primary key on Employee table?

61) Write SQL syntax to create EmployeeRefId in Incentives table as foreign key with respect to EmployeeId in employee table?

CREATE TABLE Incentives

(EmprefId int FOREIGN KEY REFERENCES employee(EmployeeId),

incentiveDate date,

IncentiveAmount int)

62) Write SQL syntax to drop foreign key on employee table?

63) Write syntax to delete employee table?

DELETE FROM employee