Name: Amit Joshi

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 [First Name] from employee

5) Get FirstName from Employee table in lower case?
    Select lower (firstname) as [first Name] 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 left(firstname,3) from employee

8) Get position of 'k' in name 'Vikas' from Employee table
    Select charindex('k','vikas')

9) Get FirstName from Employee table after removing white spaces from right side?
    Select rtrim(firstname) from employee

10) Get FirstName from Employee table after removing white spaces from left side?
    Select ltrim(firstname) from employee

11) Get length of FirstName from Employee table?
    Select len(firstname) from employee

12) Get FirstName from Employee table after replacing 'V' with 'VV'
    Select replace(firstname,'v','vv') from employee

13) Get FirstName and LastName as single column from Employee table separated by
    Select concat_WS('-',firstname,lastname) 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 date] from employee

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

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 asc,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 datename(month,joiningdate)='february'

29) Get employee details from Employee table who joined before 20th June, 2015?
   select * from employee where joiningdate< '2015-06-20'

30) Get employee details from Employee table who joined After 20th June, 2015?
   Select * from employee where joiningdate>'2015-06-21'

31) Get FirstName, JoiningDate and IncentiveDate from Employee and Incentives table?
   Select firstname,joiningdate,incentativedate from employee,incentives

32) Get Last Name from Employee table after replacing special character (e.g. % (if any)) with white space?
	Select replace(lastname,'%',' ') from employee

33) Get department, total salary with respect to a department from Employee table?
	Select department,sum(salary) as Total_salary from employee group by department

34) Get Department, TotalSalary with respect to a department from Employee table order by total salary descending?
	Select department,sum(salary) as Total_salary from employee group by department order by total_salary desc

35) Get department, no of employees in a department, salary with respect to a department from Employee table order by salary descending?
	Select department,count(employeeid) as [no of employees],sum(salary) as salary from employee order by salary desc

36) Get department wise average salary from employee table order by salary ascending?
	Select department,avg(salary) as average_salary from employee group by department order by average_salary asc

37) Get department wise maximum salary from Employee table order by salary ascending?
	Select department,max(salary) as maximum_salary from employee group by department order by maximum_salary asc

38) Get department wise minimum salary from Employee table order by salary ascending?
	Select department,min(salary) as minimum_salary from employee group by department order by minimum_salary asc

39) Select number of employees joined with respect to year and month from Employee table?
	Select count(employeeid) as [no of employees] ,year(joiningdate),month(joiningdate) 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 department,sum(salary) as total_salary from employee group by department having sum(salary) > 60000 order by sum(salary) desc

41) Select FirstName, incentive amount from Employee and incentives table for those employees who have incentives?
	Select e.firstname,i.incentiveamount from employee e,incentives I
where e.employeeid=i. EmployeeRefId

42) Select First Name, incentive amount from Employee and incentives table for those employees who have incentives and incentive amount greater than 5000
	Select e.firstname,i.incentiveamount from employee e join incentives I
on e.employeeid=i. EmployeeRefId where i.incentiveamount>5000

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

      Select e.firstname,i.incentiveamount from employee e left join incentives I
 on e.employeeid=i. EmployeeRefId

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?

      Select e.firstname,coalesce(i.incentiveamount,0) from employee e left join incentives I on e.employeeid=i. EmployeeRefId

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

      Select e.firstname,i.incentiveamount from employee e right join incentives I
 on e.employeeid=i. EmployeeRefId where i.incentiveamount is not null

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

      Select * from employee e,incentive I where i. incentives=(select max(incetive) from incentives I where e.employeeid=i. EmployeeRefId)

47) Select TOP 2 salary from Employee table?

      Select top 2 salary from employee

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

      For 2nd highest
Select max(salary) from employee where salary <(Select max(salary) from employee)

      For 3rd highest :
Select max(salary) from employee where salary <(Select max(salary) from employee where salary<(select Max(salary) from employee))

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

      Select firstName from employee
      Uninon
      Select lastname from employee

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

      Union combines result set of two queries without duplicate records while union all combines result set of two queries containing duplicate records

      Union by default uses distinct operator for filtering records while union all not uses distinct

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?
       Select e.employeeid from employee e left join incentives I on e.employeeid=i.employeerefID
where i.incentiveamount is null

53) Select 20 % of salary from Vikas, 10% of Salary for Anil and for other 15 % of salary from employee
table?
       Select salary,case
               When firstname='vikas' then (20*salary)/100
               When firstname='Anil' then (10*salary)/100
               Else (15*salary)/100
End 'salary'
From employee

54) Select Banking as 'Bank Dept', Insurance as 'Insurance Dept' and Services as 'Services Dept' from
employee table?
       Select case
               When department='Banking' then 'Bank dept'
               When department='insurance' then 'insurance dept'
               When department='services' then 'services dept'
       End 'department'
       From employee

55) Write a query to rank employees based on their incentives for a month?
Select
Select e.firstname,i.incentiveamount,RANK() over (order by e.firstname) as Rank from employee
e,incentives I where e.employeeid=i.employeerefid

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='vishal'

57) Write syntax to create Employee table?
       Create table employee(employeeid int,firstname varchar(20),lastname varchar(20),salary
money,joiningdate date,department varchar(20))

58) Write syntax to set EmployeeId as primary key in Employee table?
Alter table employee
Alter table employee Add constraint PK_employee_eemployeeId primary key (employeeid)

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59) Write SQL syntax to set 2 fields(EmployeeId ,FirstName) as primary key in Employee table
Alter table employee
Add constraint PK_employee_eemployeeId_firstname primary key (employeeid,firstname)

60) Write syntax to drop primary key on Employee table?
Alter table Drop constraint PK_employee_eemployeeId

61) Write SQL syntax to create EmployeeRefId in Incentives table as foreign key with respect to
EmployeeId in employee table?
Alter table incentive
Add constraint FK_incentives_emprefId foreign key(employeerefId) references employee(employeeId)

62) Write SQL syntax to drop foreign key on employee table?
Alter table incentives Drop constraint FK_incentives_emprefId

63) Write syntax to delete employee table?
Delete from employee