

University of Delhi

**Atma Ram  
Sanatan Dharma  
College**

**NAME :- ASHUTOSH KUMAR PANDEY**

**Roll No:- 18081**

**Course :- B.Sc.(Hons) Computer Science**

**Subject :-  
Database  
Management  
System  
Practical**

**Teacher :- Ms. Manisha Bagri**

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**1. Query to display Employee Name, Job, Hire Date, Employee Number; for each employee with the Employee Number appearing first.**

**Ans. SELECT Eno, Ename, Job\_type, Hire\_date FROM EMPLOYEE;**

**2. Query to display unique Jobs from the Employee Table.**

**Ans. SELECT DISTINCT Job\_type FROM EMPLOYEE;**

**3. Query to display the Employee Name concatenated by a Job separated by a comma.**

**Ans. SELECT CONCAT( Ename," ",job\_type ) as Employee\_Job FROM EMPLOYEE;**

**4. Query to display all the data from the Employee Table. Separate each Column by a comma and name the said column as THE\_OUTPUT.**

**Ans. SELECT CONCAT( Ename," ",job\_type ) as Employee\_Job FROM EMPLOYEE;**

**5. Query to display the Employee Name and Salary of all the employees earning more than \$2850.**

**Ans. select ename, salary from employee where salary>2850;**

**6. Query to display Employee Name and Department Number for the Employee No= 79.**

**Ans. select ename, dno from employee where eno=79;**

**7. Query to display Employee Name and Salary for all employees whose salary is not in the range of \$1500 and \$2850.**

**Ans. select ename , salary from employee where salary not between 1500 and 2850;**

**8. Query to display Employee Name and Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.**

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Ans. select ename, dname from (employee natural join department) where dno in (10,30) order by ename;

## **9. Query to display Name and Hire Date of every Employee who was hired in 1981.**

Ans. select ename, hire\_date from employee where hire\_date like '1981%';

## **10. Query to display Name and Job of all employees who have not assigned a supervisor.**

Ans. select ename, job\_type from employee where SupervisorEno is null;

## **11. Query to display the Name, Salary and Commission for all the employees who earn commission.**

Ans. select ename salary commission from employee where commission is not null;

## **12. Sort the data in descending order of Salary and Commission.**

Ans. select \* from employee order by salary desc, commission desc;

## **13. Query to display Name of all the employees where the third letter of their name is 'A'.**

Ans. select ename from employee where name like '\_\_A%';

## **14. Query to display Name of all employees either have two 'R's or have two 'A's in their name and are either in Dept No = 30 or their Manger's Employee No = 7788.**

Ans. select ename from employee where ename like '%r%r%' or ename like '%a%a%' or dno=30 or supervisorDno=778;

## **15. Query to display Name, Salary and Commission for all employees whose Commission amount is greater than their Salary increased by 5%.**

Ans. select ename, salary, commission from employee where commission>1.05\*salary;

## **16. Query to display the Current Date along with the day name.**



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Ans. select date(now()),dayname(now());

**17. Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.**

Ans. with records(ename,hire\_date, six\_after) as ( select ename, hire\_date, date\_add(hire\_date interval 6 month) as six\_after from employee ) select records.ename, records.hire\_date, date\_add(records.six\_after, interval if(0=weekday(records.six\_after),0-weekday(records.six\_after),7-weekday(records.six\_after)+0)day) as salary\_review\_date from records;

**18. Query to display Name and calculate the number of months between today and the date on which employee was hired of department 'Purchase'.**

Ans. select ename, timestampdiff(month,hire\_date,now()) from (employee natural join department) where dname='purchase';

**19. Query to display the following for each employee earns < Salary> monthly but wants < 3 \* Current Salary >. Label the Column as Dream Salary.**

Ans. select concat(ename,'earns ',salary,'monthly', 'but wants ', 3\*salary) as 'dream salary' from employee;

**20. Query to display Name with the 1st letter capitalized and all other letter lower case and length of their name of all the employees whose name starts with 'J', 'A' and 'M'.**

Ans. select concat(upper(substr(ename,1,1)), lower(substr(ename,2))) as 'name', length(ename) from employee where ename like 'j%' or ename like 'a%' or ename like 'm%';

**21. Query to display Name, Hire Date and Day of the week on which the employee started.**

Ans. select ename,hire\_date,dayname(hiredate) from employee;

**22. Query to display Name, Department Name and Department No for all the employees.**

Ans. select ename, dno, dname from (employee natural join department);

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**23. Query to display Unique Listing of all Jobs that are in Department number 30.**

Ans. select distinct job\_type from employee where dno=30;

**24. Query to display Name, Dept Name of all employees who have an 'A' in their name.**

Ans. select ename, dname from (employee natural join department) where ename like '%a%';

**25. Query to display Name, Job, Department No. And Department Name for all the employees working at the Dallas location.**

Ans. select ename, job\_type, dno, dname from (employee natural join department) where location = 'dallas';

**26. Query to display Name and Employee no. Along with their supervisor's Name and the supervisor's employee no; along with the Employees' Name who do not have a supervisor.**

Ans. select e.ename, e.eno, s.name as supervisorname, s.eno as supervision eno from employee as e left outer join employee as s on e.supervisioneno=s.eno;

**27. Query to display Name, Dept No. And Salary of any employee whose department No. and salary matches both the department no. And the salary of any employee who earns a commission.**

Ans. select l.name, l.dno, l.salary from employee as l, employee as r where l.dno=r.dno and l.salary=r.salary and l.eno<>r.eno and r.commission is not null;

**28. Query to display Name and Salaries represented by asterisks, where each asterisk (\*) signifies \$100.**

Ans. select ename, rpad('\*', salary/100, '\*') as salary\_star from employee;

**29. Query to display the Highest, Lowest, Sum and Average Salaries of all the employees**

Ans. select max(salary), min(salary), sum(salary), avg(salary) from employee;

**30. Query to display the number of employees performing the same Job type functions.**



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Ans. select job\_type, count(distinct eno) from employee group by job\_type;

**31. Query to display the total number of supervisors without listing their names.**

Ans. select count(distinct supervisoreno) from employee;

**32. Query to display the Department Name, Location Name, No. of Employees and the average salary for all employees in that department.**

Ans. select dname, location count(\*) as numberofemployees, round(avg(salary),2) as avgsalary from employee natural join department group by employee.dno;

**33. Query to display Name and Hire Date for all employees in the same dept. as Blake.**

Ans. select ename, hire\_date from employee where dno in (select dno from employee where ename like 'blake%');

**34. Query to display the Employee No. And Name for all employees who earn more than the average salary.**

Ans. select eno, ename from employee where salary > (select avg(salary) from employee);

**35. Query to display Employee Number and Name for all employees who work in a department with any employee whose name contains a 'T'.**

Ans. select eno, ename from employee where dno in (select dno from employee where ename like '%t%');

**36. Query to display the names and salaries of all employees who report to supervisor named 'King'**

Ans. select ename, salary from employee where supervisoreno in (select eno from employee where ename like 'king%');

**37. Query to display the department no, name and job for all employees in the Sales department**

Ans. select dno, ename, job\_type from (employee natural join department) where dname = 'sales';

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**38. Display names of employees along with their department name who have more than 20 year experience**

Ans. select ename, dname from ( employee natural join department )  
where timestampdiff (year. Hire\_date, now())>20;

**39. Display total number of departments at each location**

Ans. select location, count(\*) from department group by location;

**40. Find the department name in which at least 20 employees work in.**

Ans. select dname from (employee natural join department) group by  
dno having count(\*) > 20;

**41. Query to find the employee' name who is not supervisor and name of supervisor supervising more than 5 employees.**

Ans. (select ename from employee where eno not in ( select distinct  
supervisoreno from employee where supervisoreno is not null)) union (  
select ename from employee where eno in ( select supervisoreno from  
employee where supervisor eno is not null group by supervisoreno  
having count(\*)>5));

**42. Query to display the job type with maximum and minimum employees**

Ans. with jobcount as ( select count(\*) as ecount from employee group  
by job\_type) select job\_type, count(\*) from employee group by job\_type  
having count(\*) in ((select max(ecount) from jobcount) union (select  
min(ecount) from jobcount));