

PART-III

1. Who is the highest paid C programmer

SQL > select

pname

from programmer

where salary = (select

max(salary)

from programmer

where prof1 = 'C' or prof2 = 'C');

2. Who is the highest paid female cobol programmer.

SQL > select

pname

from programmer

where salary = (select

max(salary)

from programmer

where prof1 like 'cobol' or prof2 like
'cobol')

and gender = 'F';

3. Display the name of the highest paid programmers for each language (prof1)

SQL > select

pname, salary, prof1

from programmer

where salary in (select

max(salary)

from programmer

group by prof1);

4. Who is the least experienced programmer.

SQL> select

pname

from programmer

where ((sysdate-doj)/365) = (select
min((sysdate-doj)/365)
from programmer);

5. Who is the most experienced male programmer knowing pascal.

SQL> select

pname, (sysdate-doj)/365

from programmer

where gender = 'M' and

(sysdate-doj)/365 = (select
max((sysdate-doj)/365)
from programmer
where prof1 = 'Pascal' or
prof2 = 'Pascal');

6. Which language does only one programmer know.

SQL> select

prof1

from programmer

group by prof1

having prof1 not in (select

prof2

from programmer)

and count(prof1)=1

union

Select

prof2

from programmer

group by prof2

having prof2 not in (select

prof1

from programmer)

and count(prof2) = 1;

7. Who is the above programmer.

SAL> select

pname

from programmer

where prof1 in (select

prof1

from programmer

group by prof1

having prof1 not in (select

prof2

from programmer)

and count(prof1) = 1

Union

Select

prof2

from programmer

group by prof2

having prof2 not in (select

prof1

from programmer)

and count(prof2) = 1);

8. Who is the youngest programmer knowing dbase.

SQL> select

pname

from programmer

where (sysdate-dob)/365 = (select

min(sysdate-dob)/365)

from programmer

where prof1 = 'Dbase'

or prof2 = 'Dbase');

9. Which female programmer earning more than 3000 doesn't know c, c++, oracle or dbase.

SQL> select

pname

from programmer

where gender = 'F' and

salary > 3000 and

(prof1 not in ('c', 'c++', 'oracle', 'Dbase')) or

(prof2 not in ('c', 'c++', 'oracle', 'Dbase'));

10. Which institute has the most number of students.

SQL> select

splace

from studies

group by splace

having count(splace) = (select

max(count(splace))

from studies

group by splace);

11. Which course has been done by most of the students.

SQL> select

course, count(*)

from studies

group by course

having count(*) = (select

max(count*))

from studies

group by course);

12. Display the names of institute and course which has below average course fee.

SQL> select

splace, course

from studies

where cost < (select

avg(cost)

from studies);

13. Which is the costliest course.

SQL> select

course

from studies

where cost = (select

max(cost)

from studies);

14. Which institute conducts the costliest course.

SQL> select

splace

from studies

where cost = (select

max(cost) from studies);

15. Which course has the below average number of students.

```
SQL> select
      course
    from studies
   group by course
  having count(course) < (select
                                avg(count(course))
                              from studies
                             group by course);
```

16. Which institute conducts the above courses.

```
SQL> select
      Splace
    from studies
   where course in (select
                        course
                      from studies
                     having count(pname)<
                           (select
                                avg(count(pname))
                              from studies
                             group by course)
                           group by course);
```

17. Display the number of courses whose fee are within the average fee.

Q1. Which language was used to develop the package which has the highest sales amount.

SQL> select

dev-d

from software

where scost = (select

max(scost)

from software);

Q2. Display the package that has the least difference between development and selling cost.

SQL> select

title

from software

where dcost - scost = (select

min(dcost - scost)

from software);

Q3. Which is the costliest package developed in Pascal.

SQL> select

title

from software

where dcost = (select

max(dcost)

from software

where dev-d = 'Pascal');

Q4. Which language was used to develop the most number of program packages.

SQL> select

dev-d

from software

group by dev-d

having dev-d = (select

max(dev_d)
from software);

25. Which programmer has developed the highest number of packages.

SQL> select
pname
from software
group by pname
where count(pname) = (select
max(count(pname))
from software);

26. Who is the author of the costliest package.

SQL> select
pname, title
from software
where dcost = (select
max(dcost)
from software);

27. Display the names of the packages which have sold less than the average number of copies.

SQL> select
title, sold
from software
where sold < (select
avg(sold)
from software);

28. Who are the authors of the packages who have recovered more than double the development cost.

SQL> select

pname

from software

where scost * sold > 2 * dcost;

29. Display the programmers name and his cheapest package developed by him in each language.

SQL> select

pname, title, dev-d, dcost

from software

where (dev-d, dcost) in (select

dev-d, min(dcost)

from software

group by dev-d);

30. Display the language used by each programmer to develop the highest selling and lowest selling package.

SQL> select

pname, dev-d

from software

where sold in (select

max(sold)

from software

group by pname

Union

Select

min(sold)

from software

group by pname);

31. Who is the youngest male programmer born in 1965.

SQL> select

pname

from programmer

where (sysdate-dob)/365 = (select

min((sysdate-dob)/365)

from programmer

where gender = 'M'

and substr(dob,7,4)

= '1965');

32. Who is the oldest female programmer joined in 1982.

SQL> select

pname

from programmer

where (sysdate-dob)/365 = (select

max((sysdate-dob)/365)

from programmer

where gender = 'F'

and substr(dob,7,4)

= '1982');

33. In which year did most of the programmers join.

SQL> select

substr(doj,7,4)

from programmer

group by substr(doj,7,4)

having count(*) = (select

max(count(*))

from programmer

group by substr(doj,7,4));

34. Display the details of those who will be completed 20 years of service this year.

SQL> select

*

from programmer

where (sysdate - DOJ) / 365 > 20;

35. Calculate the amount to be recovered for those packages whose development cost has not yet been recovered.

SQL> select

pname, title, dcost - (sold * scost)

from software

where dcost - (sold * scost) > 0;

36. List the packages which have not been sold so far.

SQL> select

title

from software

where sold = 0;

37. Findout the cost of the software developed by mary.

SQL> select

scost

from software

where pname = 'Mary';

38. Display the institute name from studies table without duplicates.

```
SQL> select  
      splace  
    from studies  
   group by splace  
  having count(*)=1;
```

39. How many different courses are mentioned in studies table.

```
SQL> select  
      distinct (course)  
    from studies;
```

40. Display the names of programmers whose names contains 2 occurrences of letter 'a'.

```
SQL> select  
      pname  
    from programmer  
   where pname like '%.a%.a.%';
```

41. Display the names of programmers whose names contains upto 5 characters.

```
SQL> select  
      pname  
    from programmers  
   where length(pname) < 6;
```

42. How many female programmers knowing cobol have more than 2 years of experience.

SQL> select

phame

from programmer

where gender = 'F'

and (prof1 in 'Cobol' or prof2 in 'Cobol')

and (sysdate - doj) / 365 > 2;

43. What is the length of the shortest name in programmers table.

SQL> select

length(phame)

from programmer

where length(phame) = (select

min(length(phame))

from programmer);

44. What is the average development cost of a package developed in Cobol.

SQL> select

avg(dcost)

from software

where dev_d = 'Cobol';

45. Display the name, gender, dob (dd/mmm/yy format), doj (dd/mmm/yy format) for all programmers without using the conversion function.

SQL> select

phame, gender, substr(dob, 1, 2) || '/'

substr(dob, 4, 2) || '/' || substr(dob, 7, 4) dob,

substr(doj, 1, 2) || '/' || substr(doj, 4, 2) || '/'

|| substr(doj,7,4) doj
from programmer;

46. Who are the programmers who were born on the last day of the month.

SQL> select

pname, doj
from programmer
where substr(dob,1,2) in ('01', '03', '05', '07', '08',
'10', '12') and substr(dob,4,2) = '30'
Or substr(dob,1,2) in ('07', '06', '09', '11') and
substr(dob,4,2) = '30'
Or substr(dob,1,2) in ('02') and substr(dob,4,2)
= '28' or substr(dob,4,2) = '29';

47. What is the amount paid salaries of male programmers who don't know cobol.

SQL> select

pname, salary
from programmers
where gender = 'M' and
(prof1 != 'Cobol' or prof2 != 'Cobol');

48. Display the title, scost, dcost and difference between scost and dcost in descending order of difference.

SQL> select

title, scost, dcost, dcost - scost
from software
Order by 4 desc ;

49. Display the names of the packages whose name contain more than one word.

SQL> select

 title

 from software

 where title like '%. %.';

50. Display the name, job, dob, doj of those month of birth and month of joining are same.

Part-IV

1. Display the details of those who are drawing the same salary.

SAL> select

```
    p1.pname, p1.salary, p2.pname, p2.salary  
from programmer p1, programmer p2  
where p1.pname != p2.pname and  
p1.salary = p2.salary  
order by p1.salary;
```

2. Display the details of software developed by male programmers earning more than 3000.

SAL> select

```
s.*  
from programmer p, software s  
where p.pname = s.pname and  
p.gender = 'M' and p.salary > 3000;
```

3. Display the details of the packages developed in Pascal by female programmers.

SAL> select

```
s.*  
from programmer p, software s  
where p.pname = s.pname and p.gender = 'F'  
and dev_d = 'Pascal';
```

4. Display the details of software developed in c by female programmers of pragathi.

SQL> select

*

from software

where pname in (select

pname from studies

where splace = 'Pragathi'

and pname in (select

pname

from programs

where gender='F'

and gendev_d = 'c');

5. Display the number of packages, number of copies sold and sales value of each programmer institute wise.

SQL> select

t1.* , t2.splace

from (select

pname, count(*) packages, sum(sold)

copies, sum(scost*sold) sales from

software

group by pname) t1, studies t2

where t1.pname = t2.pname

order by t2.splace;

6. Display the details of the software developed in dbase by male programmers who belong to the institute in which most number of programmers studied.

SQL> select

s.*

from programmer p, studies st, softwares
where s.pname = st.pname and s.pname =
p.pname and p.pname = st.pname and
p.gender = 'M' and s.dev_d = 'Dbase' and
st.splace = (select

splace

from studies

group by splace

having count(pname)

= (select

max(count(pname))

from studies

group by splace));

7. Display the details of software developed by male programmers whose salary is less than 2500 and female programmers whose salary is greater than 2500.

SQL> select

s.*

from programmer p, softwares

where s.pname = p.pname and

((p.gender = 'M' and p.salary < 2500) or

(p.gender = 'F' and p.salary > 2500));