**ORACLE LAB 3**

**1**. SELECT staff\_name,dept\_code,dept\_name

FROM staff\_master NATURAL JOIN department\_master

WHERE staff\_sal>20000;

**2.** SELECT

s.staff\_code Staff#,s.staff\_name Staff,d.dept\_name,s.mgr\_code Mgr#, m.staff\_name Manager

FROM

staff\_master s , staff\_master m , department\_master d

where s.mgr\_code= m.staff\_code AND s.dept\_code=d.dept\_code;

**3.** SELECT s.student\_code,s.student\_name,d.dept\_name,m.subject1,m.subject2,m.subject3

FROM

student\_master s,department\_master d, student\_marks m

WHERE

(s.dept\_code= d.dept\_code) AND (s.student\_code= m.student\_code)

AND (m.subject1>60) AND (m.subject2>60)AND (m.subject3>60) AND d.dept\_code IN(10,20);

**4**. SELECT s.student\_code,s.student\_name,b.book\_code,b.book\_name

FROM

student\_master s, book\_master b, book\_transaction t

WHERE

s.student\_code= t.student\_code AND t.book\_expected\_return\_date=SYSDATE AND b.book\_code= t.book\_code;

**5.** SELECT s.staff\_code,s.staff\_name,d.dept\_name,de.design\_name,b.book\_code,b.book\_name,b1.book\_issue\_date

FROM

staff\_master s, designation\_master de, department\_master d, book\_master b, book\_transaction b1

WHERE

(s.dept\_code= d.dept\_code) AND (s.design\_code= de.design\_code) AND (b1.staff\_code= s.staff\_code)

AND (b1.book\_code= b.book\_code) AND (sysdate- b1.book\_issue\_date<30);

**6.** SELECT bt.book\_code,bm.book\_name

FROM book\_master bm,book\_transaction bt

WHERE bm.cook\_code=bt.book\_code

AND bt.book\_code IN

(SELECT book\_code FROM book\_transaction

GROUP BY book\_code

HAVING COUNT(book\_code)=1);

**8**. SELECT s.student\_code,s.student\_name,d.dept\_name,(m.subject1+m.subject2+m.subject3) AS TOTAL,s1.staff\_name AS HOD

FROM

student\_master s,department\_master d, student\_marks m,staff\_master s1, designation\_master d2

WHERE

(s1.dept\_code= d.dept\_code) AND (d.dept\_code= s.dept\_code) AND (s.student\_code= m.student\_code) AND (s1.design\_code= d2.design\_code) AND (d2.design\_name='HOD' )AND (d2.design\_code=s1.design\_code);

**9**. SELECT s.staff\_code,s.staff\_name,d1.dept\_name,d.design\_name,b.boo k\_code,b.book\_name, b.book\_pub\_author,5\*(sysdate- t.book\_expected\_return\_date) AS Fine

FROM

staff\_master s, book\_master b, department\_master d1, designation\_master d, book\_transaction t

WHERE

s.dept\_code= d1.dept\_code AND s.design\_code= d.design\_code AND s.staff\_code= t.staff\_code AND b.book\_code= t.book\_code;

**10.** SELECT staff\_code,staff\_name,staff\_sal

FROM staff\_master

WHERE staff\_sal<

(SELECT AVG(staff\_sal)

FROM staff\_master);

**11**. SELECT s.staff\_code,s.staff\_name

FROM staff\_master s, staff\_master m

WHERE (m.mgr\_code!= s.staff\_code);

**12.** SELECT book\_pub\_author,book\_name

FROM book\_master

WHERE book\_pub\_author in(SELECT book\_pub\_author

from book\_mater group by book\_pub\_author having

count(book\_pub\_auhtor)>1);

**13.** SELECT s.staff\_code,s.staff\_name,d.dept\_name

FROM

staff\_master s,department\_master d,book\_transaction b

WHERE

(s.dept\_code=d.dept\_code) AND (s.staff\_code=b.staff\_code) AND s.staff\_code IN

(SELECT staff\_code from book\_transaction GROUP BY staff\_code

HAVING count(staff\_code)>1);

**14.** SELECT \* from

(

SELECT s.student\_code,s.student\_name,d.dept\_name,(s1.subject1+s1.subject2+s1.subject3) AS TOTAL

FROM student\_master s, student\_marks s1, department\_master d

WHERE s.student\_code= s1.student\_code AND s.dept\_code= d.dept\_code

ORDER BY total desc

)

where rownum<=10;

**15 a)**  SELECT s.staff\_name,s.staff\_sal,d.dept\_name

FROM staff\_master s, department\_master d

WHERE s.dept\_code= d.dept\_code AND s.staff\_sal<

(SELECT AVG(staff\_sal)

FROM staff\_master m

WHERE s.dept\_code= m.dept\_code);

**15 b)**  SELECT

s.staff\_name,s.dept\_code, s.design\_code, s.hiredate, s.mgr\_code, s.staff\_address, s.staff\_dob,s.staff\_sal,d.dept\_name,ROUND((sysdate-s.hiredate)/365) S Experience

FROM

staff\_master s, department\_master d, designation\_master d1

WHERE

s.dept\_code= d.dept\_code AND s.design\_code= d1.design\_code AND d1.design\_name IN ('Professor'

,'Lecturer');

**16**. SELECT s.staff\_name,d.dept\_name

FROM staff\_master s, department\_master d

WHERE (s.dept\_code= d.dept\_code)

AND d.dept\_code=(SELECT dept\_Code FROM staff\_master WHERE staff\_name='&name');

**17.** SELECT s.student\_code,s.student\_name,d.dept\_name

FROM student\_master s, department\_master d, student\_marks m

WHERE s.dept\_code= d.dept\_code AND s.student\_code= m.student\_code

AND m.subject1=(SELECT MAX(subject1) FROM student\_marks)

AND m.subject2=(SELECT MAX(subject2) FROM student\_marks)

AND m.subject3=(SELECT MAX(subject3) FROM student\_marks)

AND d.dept\_name='Computer Science'

AND m.student\_year IN(SELECT student\_year

FROM student\_marks

WHERE student\_year=&year);

**18.** SELECT st.student\_code AS studentcode,st.student\_name AS studentname,dep.dept\_name AS department

FROM student\_master st,department\_master dep

WHERE dep.dept\_code=st.dept\_code

AND dep.dept\_code IN

(SELECT dept\_code

FROM student\_master

GROUP BY dept\_code

HAVING COUNT(dept\_code)=(SELECT MAX(COUNT(dept\_code))

FROM student\_master

GROUP BY dept\_code));

**19.** SELECT s.staff\_code,s.staff\_name,d.dept\_name,d1.design\_name

FROM

staff\_master s, department\_master d, designation\_master d1

WHERE

s.dept\_code= d.dept\_code AND s.design\_code= d1.design\_code

AND (sysdate-hiredate)<=90;

**20.** SELECT emp.mgr\_code AS manager,COUNT(emp.staff\_code)

AS TotalStrength,mgr.staff\_name AS managername

FROM staff\_master emp,staff\_master mgr

WHERE emp.mgr\_code=mgr.staff\_code

GROUP BY mgr.staff\_name,emp.mgr\_Code;

**21**.SELECT INTICAP(bm.book\_name) AS

Bookname,TO\_CHAR(bt.book\_expected\_return\_date,’DAY’) AS

Weekday, bt.book\_expected\_return\_date

FROM book\_master bm,book\_transaction bt

WHERE bt.book\_code=bm.book\_code

AND

TO\_CHAR(bt.book\_expected\_return\_date,’DDMMYY’)=TO\_CHAR(NEXT\_DAY(SYSDATE-7,’MONDAY’),’DDMMYY’);

**22**. SELECT dep.dept\_code AS departcode,COUNT(emp.staff\_Code) AS

TotalStrength,dep.dept\_name AS departmentname

FROM staff\_master emp,department\_master dep

WHERE emp.dept\_code=dep.dept\_code

GROUP BY dep.dept\_code, dep.dept\_name

ORDER BY dep.dept\_code;

**LAB 3.2(Set Operators)**

**1.** SELECT \* FROM previous\_products

UNION

SELECT \* FROM current\_products

**2**. SELECT \* FROM previous\_products

UNION ALL

SELECT \* FROM current\_products

**3**. SELECT \* FROM previous\_products

INTERSECT

SELECT \* FROM current\_products

**4**. SELECT \* FROM previous\_products

MINUS

SELECT \* FROM current\_products