

1. a)  $\text{SQRT}()$

select  $\text{sqrt}(64)$  from dual

b)  $\text{last\_day}()$

select  $\text{last\_day}('17-june-2010')$  from dual

$\text{last\_day}('17-june-2010')$
30-JUN-10

2. Employees reporting to president

select  $e1.ename$  subordinates,  $e2.ename$  president  
from employee  $e1$ , employee  $e2$ , job  $j$

where  $e1.mgr\_no = e2.empno$  and

$e2.job = j.jcode$  and

$j.name = 'president'$

3. Display the names of employees whose names have second alphabet A in their names.

select  $ename$

from Employee

where  $ename$  like  $'\_A\%'$

4. Find names of sailors who have reserved both blue and red boats

select  $s.sname$

from sailors  $s$ , Reserves  $R$ , Boats  $B$

where  $s.sid = R.sid$  and  $R.bid = B.bid$  and  $B.color = 'red'$

INTERSECT

select  $s2.sname$

from sailors  $s2$ , Boats  $B2$ , Reserves  $R2$

where  $s2.sid = R2.sid$  and  $R2.bid = B2.bid$  and  $B2.color = 'blue'$



T. Names of sailors having min age at each level.

6. PL/SQL program to display a sailor details with  
sid=31.

Declare

v\_sid sailors.sid % type := 31;

v\_sname sailors.sname % type;

v\_rating sailors.rating % type;

v\_age sailors.age % type;

begin

select sname, rating, age into v\_sname, v\_rating,  
v\_age from sailors where sid = v\_sid;

dbms\_output.put\_line('sailor name is ' || v\_sname);

dbms\_output.put\_line('sailor rating is ' || v\_rating);

dbms\_output.put\_line('sailor age is : ' || v\_age);

end;

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Set-3

sysdate:

select sysdate from dual;

sysdate
01-DEC-2020

2. Employee name whose name ends with alphabet 's'.

SELECT ename;  
FROM Employee  
WHERE ename like '%s';

3. Employee names of accounting department:

select ename  
from Employee e, Dept d  
where e.deptno = d.deptno AND  
d.name = 'accounting'

No Data found.

4. Sailor name reserved boatno: 103

select s.sname  
from Sailors s, Reserves r  
where s.sid = r.sid and r.bid = 103.

5. Color of boats reserved by sailor name 'rusty'.

select b.color  
from Reserves r, Sailors s, Boats b  
where s.sid = r.sid and b.bid = r.bid and s.sname  
= 'rusty'.

it



6. pl/sql program for sailor using %rowtype data type.

Declare

```
v_id sailors.sid %type;  
row sailors %rowtype;
```

begin

```
v_id := &v_id;
```

```
Select * into row from sailors where sid = v_id;
```

```
dbms_output.put_line('sailor name is: ' || row.sname);
```

```
dbms_output.put_line('sailor rating is: ' || row.rating);
```

```
dbms_output.put_line('sailor age is: ' || row.age);
```

exception

```
when no_data_found then
```

```
dbms_output.put_line('No sailors with given sid');
```

end;

/

O/p: sailor name is: Dustin

sailor rating is: 7

sailor age is: 45.



Set 5 :-

1. a) CONCAT().

select concat('Andhra', 'Pradesh') from dual.

b) Next-Day()

select next-day('15-sept-12', 'mon') from Dual

NEXT-DAY('15-SEPT-12', 'MON')
17-Sept-12

2. Display the employee number and name who do not earn any commission

select ename, empno  
from Employee  
where commission is null

3. Write the job functions of all the employees who are managers of other employees.

select distinct e2.ename managers, j.jname jobs  
from Employee e1 = Employee e2, job j  
where e1.mgr-no = e2.empno and  
e2.job = j.jcode

4. Find sid of sailors who reserved red boat

(select s.sid  
from Sailors s, Boats b, Reserves r  
where s.sid = r.sid and b.bid = r.bid and b.color = 'red')

5. Find age of youngest sailor for each rating level

select s.rating, min(s.age)  
from Sailors S  
Group By s.rating.



6. PL/SQL to find factorial of a given number by using function.

Declare

a number;

function fact(n in number)

return number

is

z number;

Begin

if  $n < 0$  then

z := 1;

else if  $n = 1$  or  $n = 0$  then

z := 1;

else

z := 1;

for i in 1..n loop

z := (z \* i);

end loop;

end if;

return z;

Begin

a := &a;

dbms\_output.put\_line(a || ' factorial is: ' || fact(a));

end;

/



Set-6:

1. a) sysdate

b) RPAD()

select rpad ('rahini', 10, '@') :

rpadd ('RAHINI', 10, '@')
rahini@@@@@

2. Display the names of all employees who are working in depart number 10.

select ename

from Employee

where deptno = 10.

3.

4. Find colors of boats reserved by Lubber

select b.color

from Sailors S, Reserves R, Boats B

where s.sid = R.sid and R.bid = B.bid and  
s.sname = 'Lubber'.

5. Names of sailors <sup>reserved</sup> atleast one boat

select s.sname

from Sailors S, Reserves R

where s.sid = R.sid



6. PL/SQL program to handle divide by zero exception

Declare

a number := 20;

b number := 0;

c number;

Begin

c := a/b;

Exception

When zero\_divide then

dbms\_output.put\_line ("Attempt to divide by zero");

When Others then

dbms\_output.put\_line ("An exception is raised in program");

end;

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