

OUTPUTS

1.

Sname
Dustin
Subber
Haratio

2.

Sname
Beatus
Andy
Rusty
Zorba
Mat
Bob

3.

Sname
Dustin
Subber
Haratio

4.

Sname
Subber
Andy
Rusty
Zorba
Haratio

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LAB-4

★ AIM
Based on the database including Sailors, Reserves and Boats relations, answer the following queries. (Table drawn in Lab 3)

1. A nested query showing the name of sailors having boat number 103.
select s.sname from sailors as s
where s.sid in (select r.sid from reserves as r
where r.bid = 103);

2. A nested query showing the name of sailors who do not have a red boat.
select s.sname from sailors as s
where s.sid not in (select r.sid from reserves as r
where r.bid not in (select b.bid from boats as b
where b.color = 'red'));

3. A correlated query showing the name of sailors having boat number 103.
select s.sname from sailors as s
where exists (select * from reserves as r
where r.sid = s.sid and r.bid = 103);

4. Sailors having more rating than Haratio (any).
select s.sname from sailors as s
where s.rating > any (select s2.rating from sailors s2
where s2.sname = 'Haratio');

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where s2.sname = 'Horatio';

5. Sailors having more rating than Horatio (both)

select s.sname from sailors s

where s.rating > all (select s2.rating from sailors

s2 where s2.name = 'Horatio');

6. Sailors having the highest rating.

select s.sname from sailors as s

where s.rating >= all (select s2.rating from sailors

s2);

7. Sailors having both red and green boats.

select distinct s1.sname from sailors as s1,

reserves as r1, boats as b1

where s1.sid = r1.sid and r1.bid = b1.bid and

b1.color = 'red' and s1.sid in

(select s2.sid from sailors s2, reserves r2,

boats b2

where s2.sid = r2.sid and r2.bid = b2.bid

and b2.color = 'green');

8. Sailors having all the boats.

select s.sname from sailors s

where not exists ((select b.bid from boats as

b) except (select r.bid from reserves r

where r.sid = s.sid));

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avg (age)
37.1000

avg (age)
25.5000

Sname	age
Bob	64

No-of-sailors
10

Sname
Dustin
Kubler
Bob

rating	min(s.age)
7	35
1	33
8	26
10	16
9	35
3	26

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9. Average age of sailors.
select avg (age) from sailors;

10. Average age of sailors having their rating 10.
select avg (age) from sailors s
where s.rating = 10;

11. Name of the oldest sailor.
select s.sname, s.age from sailors s
where s.age = (select max (s2.age)
from sailors s2);

12. Total number of sailors.
select count (s.sid) as No-of-sailors from
sailors s;

13. Sailors older than the oldest sailor who
has rating 10.
select s.sname from sailors s
where s.age > (select max (s2.age) from
sailors s2 where s2.rating = 10);

14. Youngest sailor for each rating
select s.rating, min (s.age) from sailors s
group by s.rating;

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OUTPUTS

1.

fname
JAMES
JENNIFER

2.

fname
JENNIFER

3.

dname	avg=salary
Headquarters	55000.0000

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LAB-5

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* AIM
Based on the 'company' database (Lab 2), answer the following queries.

1. Using a subquery, list the name of the employees paid more than 'Franklin' from EMPLOYEE.

select e.fname from employee e
where e.salary > (select e.salary from employee e
where e.fname = 'Franklin');

2. Name of the employee who has the second highest salary.

select e.fname from employee e
where e.salary < (select max(e.salary) from
employee e)
order by e.salary desc
limit 1;

3. Select the department with the highest average salary.

select d.dname, avg(e.salary) as avg-salary
from employee e
join department d on e.dno = d.dnumber
group by dno
order by avg-salary desc
limit 1;

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4.

fname
Ahmad
Tenniles
Alicia

5.

fname
Toku
Franklin
Tenniles

4. Using the nested query, select any employee who works in location Stafford.

```
select e.fname from employee e
where e.dno = (select d.dnumber from
dept_locations d
where d.dlocation = 'Stafford');
```

5. Use EXIST to find employees who have at least one dependent.

```
select e.fname from employee e
where exists (select d.dependent_name from
dependent d
where d.essn = e.ssn);
```