ROLL NUMBER : 19131A05P1 V SATYA SIVA LALITHA GAYATHRI BODA
SEC: CSE4

Part A

Aim:
Database Querying – Simple queries.

Prerequisite: Oracle.

Outcome: Understanding and use of various Oracle functions.

Procedure:

1. Formulate the query for given problem.
2. Write the SQL query with proper input.
3. Execute the query.

Practice Exercise:
Sailors(sid, sname, sage, srating)

1. Display all the sailors names avoid duplicates.
2. Find the name and the age of the youngest sailor
3. Find the sailor id's of sailors whose rating is better than some sailor called Bob
4. Find the sailor id's of sailors whose rating is better than every sailor called Bob.
5. Count the number of different sailor names.
6. Calculate the average age of all sailors.
7. Find the name and the age of the youngest sailor.
8. Find the average age of sailors for each rating level.
9. Find the average age of sailors for each rating level that has at least two sailors.
10. Order the names in ascending order.
11. Find the sailor id's of sailors with the highest rating
12. Find the name and age of the oldest sailor.

Instructions:

1. Write and execute the query in Oracle SQL server.
2. Paste the snapshot of the output in input & output section.

Part B

Code and Output:

create table Sailors(sid number(2), sname varchar(15), srating number(2),sage float(4));

Sailors Table created

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Autocommit Rows 10 Save Run

```
begin
insert into sailors values(22,'Dustin', 7 ,45);
insert into sailors values(29, 'Brutus', 1, 33);
insert into sailors values(31, 'Lubber' ,8 ,55.5);
insert into sailors values(32 ,'Andy', 8 ,25.5);
insert into sailors values(58,' Rusty' ,10 ,35);
insert into sailors values(64 ,'Horatio', 7, 35);
insert into sailors values(71, 'Zorba' ,10 ,16);
insert into sailors values(74, 'Horatio' ,9, 40);
insert into sailors values(85, 'Art' ,3, 25.5);
insert into sailors values(95, 'Bob' ,3, 63.5);
end;
/
```

Results Explain Descr

```
Statement processed.
```

Data inserted

1)select distinct sname from sailors;

Autocommit Rows 10 Save Run

```
select distinct sname from sailors;
```

Results Explain Describe Saved SQL History

SNAME
Rusty
Lubber
Brutus
Andy
Art
Bob
Dustin
Zorba
Horatio

9 rows returned in 0.01 seconds Download

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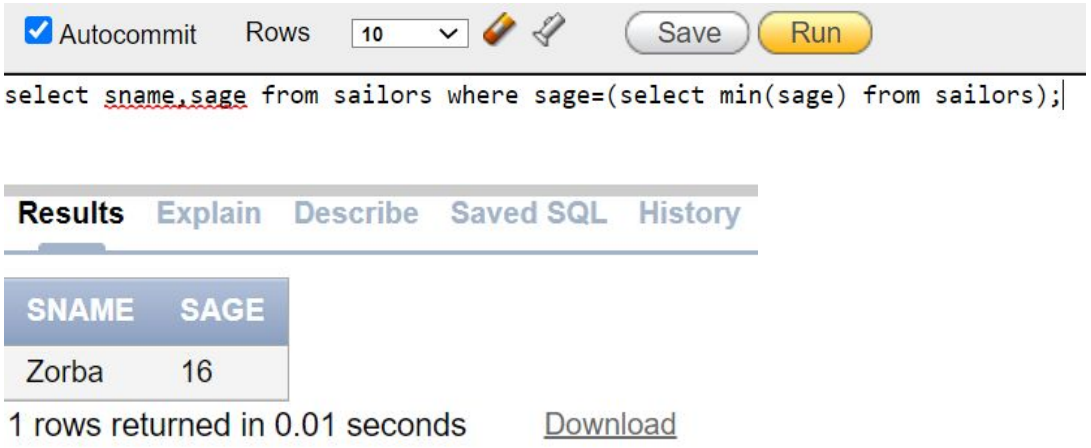
2)select sname,sage from sailors where sage=(select min(sage) from sailors);



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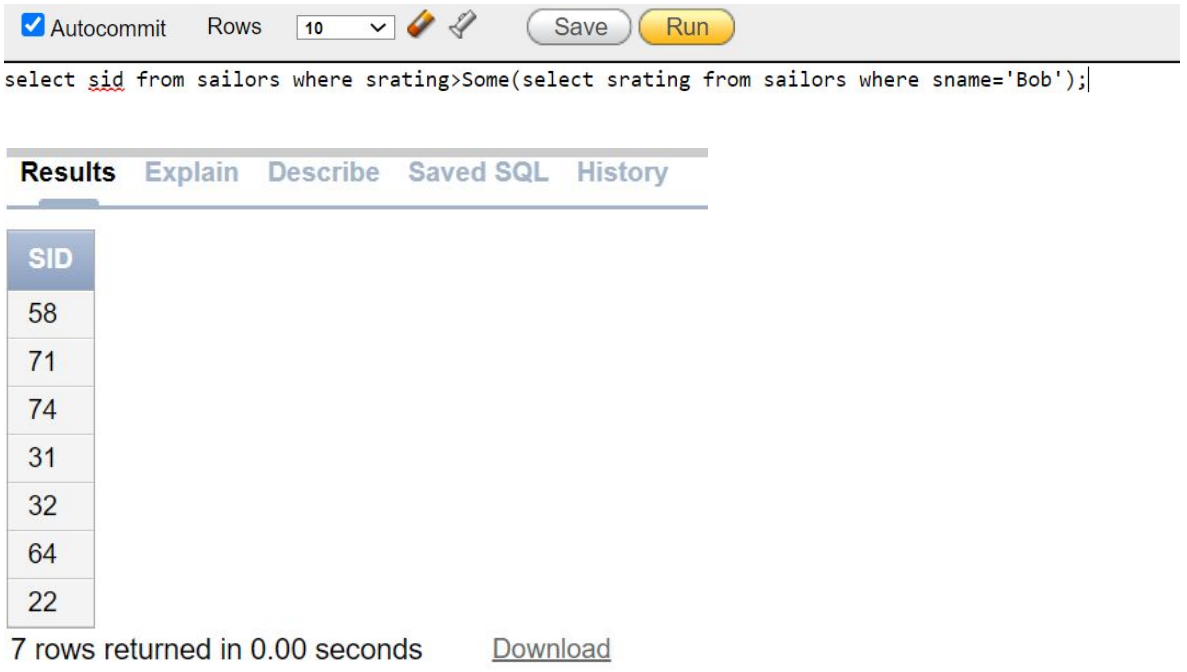
3)select sid from sailors where srating>=SOME(select srating from sailors where sname='Bob');



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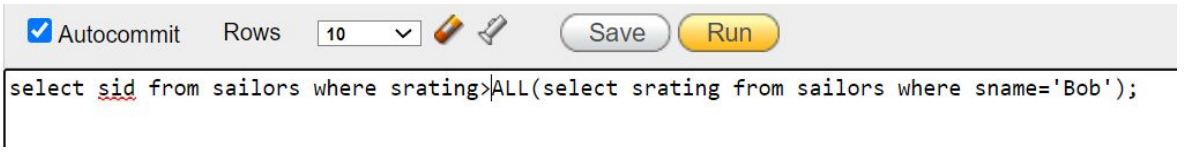
4)
select sid from sailors where srating>ALL(select srating from sailors where sname='Bob');



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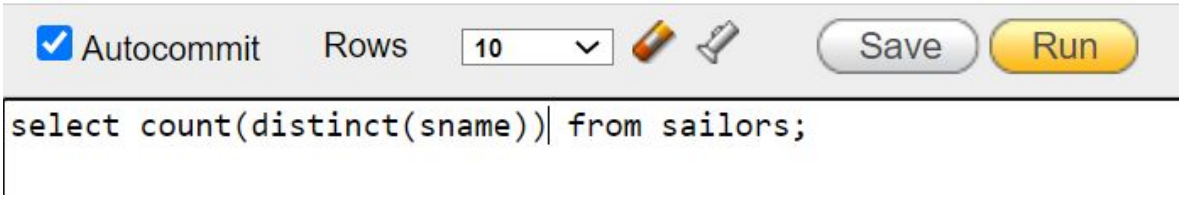
Results Explain Describe Saved SQL History

SID
64
22
31
32
74
71
58

7 rows returned in 0.00 seconds Download

5) select count(distinct(sname)) from sailors;

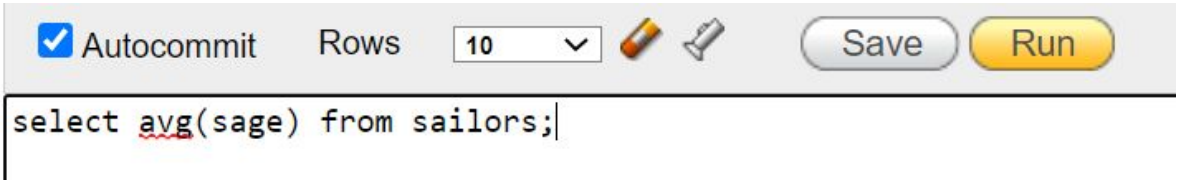


Results Explain Describe Saved SQL History

COUNT(DISTINCT(SNAME))
9

1 rows returned in 0.00 seconds Download

6)select avg(sage) from sailors;



Results Explain Describe Saved SQL Histo

AVG(SAGE)
37.4

1 rows returned in 0.00 seconds Download

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7)select sname,sage from sailors where sage=(select min(sage) from sailors);


```
select sname,sage from sailors where sage=(select min(sage) from sailors);
```

Results | Explain | Describe | Saved SQL | History

SNAME	SAGE
Zorba	16

1 rows returned in 0.01 seconds Download

8)select avg(sage) from sailors group by srating;


```
select avg(sage) from sailors group by srating;
```

Results | Explain | Describe | Saved SQL | History

AVG(SAGE)
33
40.5
40
44.5
25.5
40

6 rows returned in 0.00 seconds Download

9)select avg(sage) from sailors group by srating having count(sage)>=2


```
select avg(sage) from sailors group by srating having count(sage)>=2;
```

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Results Explain Describe Saved SQL History

AVG(SAGE)
40.5
40
44.5
25.5

4 rows returned in 0.00 seconds Download

10)select sname from sailors order by sname asc;

```
select sname from sailors order by sname asc;
```

Results Explain Describe Saved SQL History

SNAME
Andy
Art
Bob
Brutus
Dustin
Horatio
Horatio
Lubber
Rusty
Zorba

10 rows returned in 0.00 seconds Download

11)select sid from sailors where srating=(select max(srating) from sailors);

Autocommit Rows 10 Save Run

```
select sid from sailors where srating=(select max(srating) from sailors);
```

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Results Explain Describe Saved SQL Hist

SID
58
71

2 rows returned in 0.00 seconds Download

12)select sname,sage from sailors where sage=(select max(sage) from sailors);

Results Explain Describe Saved SQL History

SNAME	SAGE
Bob	63.5

1 rows returned in 0.00 seconds Download

OBSERVATIONS:
Practiced some dbms simple queries and recorded the outputs.

Conclusion:
Learned how to write simple queries in sql.