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Enrolment number – 23162121021

Batch 31

Class 3A

Q.1) Write an SQL query to display maximum salary from employee table.

Q.2) Write an SQL query to display employee name who is taking maximum salary.

Q.3) Write an SQL query to display second highest salary from employee table?

Q.4) Write an SQL query to display employee name who is taking second highest salary.

Q.5) Write an SQL query to display all the dept names along with no of employees working in it.

Q.6) Write an sql query to display all the employee names where no. of employees are less than 2.

Q.7) Display the name of employee who works in department having count of employee less than 2.

Q.8) Write a query display highest salary department wise and name of employee who is taking that salary.

Q.9) Find the name of employees who are working on a project?

Q.10) Find the details of employee who is working on at least one project?

Code:

```
create database Prac_7;
```

```
use Prac_7;
```

```
create table employee (eid int primary key, ename varchar(50), address varchar(100), dept  
varchar(50), salary int);
```

```
insert into employee values (1, 'ram', 'chd', 'hr', 10000), (2, 'amit', 'delhi', 'mrkt', 20000), (3, 'ravi',  
'pune', 'hr', 30000), (4, 'nitin', 'bang', 'mrkt', 40000), (5, 'varun', 'chd', 'it', 50000);
```

```
create table project (eid int, pid varchar(10), pname varchar(50), location varchar(50), foreign key  
(eid) references employee(eid));
```

insert into project values (1, 'p1', 'iot', 'bang'), (5, 'p2', 'big data', 'delhi'), (3, 'p3', 'retail', 'mumbai'), (4, 'p4', 'android', 'hyderabad');

select max(salary) as max_salary from employee;

select ename from employee where salary = (select max(salary) from employee);

select max(salary) as second_highest_salary from employee where salary < (select max(salary) from employee);

select ename from employee where salary = (select max(salary) from employee where salary < (select max(salary) from employee));

select dept, count(*) as employee_count from employee group by dept;

select ename from employee where dept in (select dept from employee group by dept having count(*) < 2);

select ename from employee where dept in (select dept from employee group by dept having count(*) < 2);

select e.dept, e.ename, e.salary from employee e inner join (select dept, max(salary) as max_salary from employee group by dept) m on e.dept = m.dept and e.salary = m.max_salary;

select distinct e.ename from employee e inner join project p on e.eid = p.eid;

select e.* from employee e where exists (select 1 from project p where p.eid = e.eid);

The image displays three screenshots of a database query tool interface, likely Oracle SQL Developer, showing the results of different SQL queries. Each screenshot has a top toolbar with 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content' options. A vertical sidebar on the right contains icons for 'Result Grid', 'Form Editor', and 'Field Types'.

- Top Screenshot:** The 'Result Grid' shows a single row with the column 'max_salary' and the value '50000'. The bottom status bar shows 'Result 1' selected, with tabs for 'employee 2' through 'employee 10'.
- Middle Screenshot:** The 'Result Grid' shows a single row with the column 'ename' and the value 'varun'. The bottom status bar shows 'employee 2' selected, with tabs for 'Result 1' through 'employee 10'.
- Bottom Screenshot:** The 'Result Grid' shows a single row with the column 'second_highest_salary' and the value '40000'. The bottom status bar shows 'Result 3' selected, with tabs for 'employee 2' through 'employee 10'.

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Read Only

	ename
▶	nitin

Result 1employee 2Result 3employee 4 ×Result 5employee 6employee 7Result 8Result 9employee 10

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Read Only

Result 1employee 2Result 3employee 4Result 5 ×employee 6employee 7Result 8Result 9employee 10

Output

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Read Only

Result 1employee 2Result 3employee 4Result 5employee 6 ×employee 7Result 8Result 9employee 10

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

Form Editor

Field Types

Read Only

Result 1employee 2Result 3employee 4Result 5employee 6employee 7 ×Result 8Result 9employee 10

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

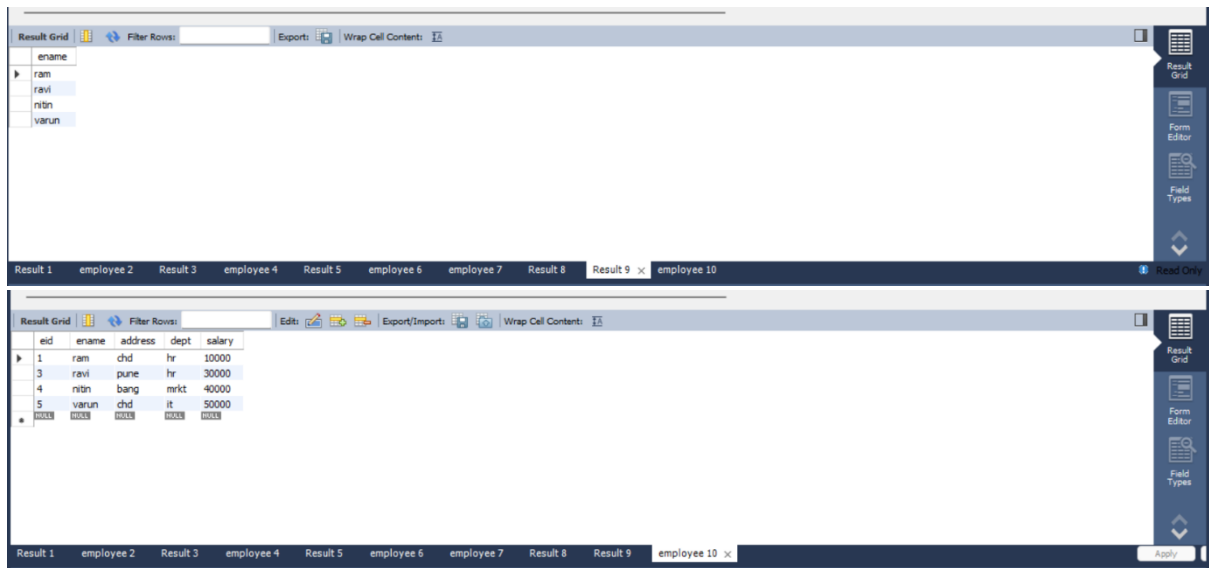
Form Editor

Field Types

Read Only

Result 1employee 2Result 3employee 4Result 5employee 6employee 7Result 8 ×Result 9employee 10

Output



Action log:

#	Time	Action	Message	Duration / Fetch
1	21:57:45	create database Prac_7	1 row(s) affected	0.000 sec
2	21:57:45	use Prac_7	0 row(s) affected	0.000 sec
3	21:57:45	create table employee (eid int primary key, ename varchar(50), address varchar(100), dept varchar(50), salary int)	0 row(s) affected	0.031 sec
4	21:57:45	insert into employee values (1, 'ram', 'chd', 'hr', 10000), (2, 'amit', 'delhi', 'mrkt', 20000), (3, 'ravi', 'pune', 'hr', 30000), (4, 'nitin', 'bang', 'mrkt', 40000), (5, 'varun', 'chd', 'it', 50000)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
5	21:57:46	create table project (eid int, pid varchar(10), pname varchar(50), location varchar(50), foreign key (eid) references employee(eid))	0 row(s) affected	0.015 sec
6	21:57:46	insert into project values (1, 'p1', 'delhi', 'big data', 'delhi'), (2, 'p2', 'big data', 'delhi'), (3, 'p3', 'delhi', 'delhi'), (4, 'p4', 'delhi', 'delhi'), (5, 'p5', 'delhi', 'delhi')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.000 sec
7	21:57:46	select max(salary) as max_salary from employee LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
8	21:57:46	select ename from employee where salary = (select max(salary) from employee) LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec
9	21:57:46	select max(salary) as second_highest_salary from employee where salary < (select max(salary) from employee) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
10	21:57:46	select ename from employee where salary = (select max(salary) from employee where salary < (select max(salary) from employee) LIMIT 0, 1000)	1 row(s) returned	0.000 sec / 0.000 sec
11	21:57:46	select dept, count(*) as employee_count from employee group by dept LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
12	21:57:46	select ename from employee where dept in (select dept from employee group by dept having count(*) < 2) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
13	21:57:46	select ename from employee where dept in (select dept from employee group by dept having count(*) < 2) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
14	21:57:46	select e.dept, e.ename, e.salary from employee e inner join (select dept, max(salary) as max_salary from employee group by dept) p on e.dept = p.dept and e.salary = p.max_salary	3 row(s) returned	0.016 sec / 0.000 sec
15	21:57:46	select distinct e.ename from employee e inner join project p on e.eid = p.eid LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
16	21:57:46	select e." from employee e where exists (select 1 from project p where p.eid = e.eid) LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec