2. The EmployeeInfo Table is given below. Find out the answers to the following questions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EmpID** | **EmpFname** | **EmpLname** | **Department** | **Salary** |
| 1 | Karan | mehta | HR | 300000 |
| 2 | Rohit | Sharma | Admin | 75000 |
| 3 | Ankush | Rajput | Account | 60000 |
| 4 | Priyadarshini | Sharma | HR | 500000 |
| 5 | Sanket | Gupta | Developer | 100000 |
| 6 | Shruthi | Varyar | Admin | 80000 |
| 7 | Rohit | Sharma | Admin | 75000 |

1. Write a query to find the third highest salary from the EmployeeInfo table ?
2. Write a query to find the third highest salary from the table without using TOP/LIMIT keyword ?
3. Write a query to find the duplicate row in a table ?
4. Write a query to calculate the even and odd records from a table ?
5. Write a query to display the first and last record from the EmployeeInfo table ?
6. How do you copy all rows of a table using query ?
7. Write a query to retrieve the list of employees working in the same department ?
8. Write a query to retrieve the last 3 records from the EmployeeInfo table ?
9. Write a query to fetch details of an employee whose EmpLname ends with an alphabet ‘A’ and contains five alphabets ?

ANSWERS

select \*

from employeeinfo;

emp\_id | emp\_fname | emp\_lname | department | salary

--------+---------------+-----------+------------+--------

1 | Karan | mehta | HR | 300000

2 | Rohit | Sharma | Admin | 75000

3 | Ankush | Rajput | Account | 60000

4 | Priyadarshini | Sharma | HR | 500000

5 | Sanket | Gupta | Developer | 100000

6 | Shruthi | Varyar | Admin | 80000

7 | Rohit | Sharma | Admin | 75000

(7 rows)

**A)**

SELECT \*

FROM employeeinfo

ORDER BY salary DESC

LIMIT 1 OFFSET 2;

emp\_id | emp\_fname | emp\_lname | department | salary

--------+-----------+-----------+------------+--------

5 | Sanket | Gupta | Developer | 100000

(1 row)

**B)**

SELECT Max(salary) AS third\_max\_salary

FROM employeeinfo

WHERE salary < (SELECT Max(salary)

FROM employeeinfo

WHERE salary < (SELECT Max(salary)

FROM employeeinfo));

third\_max\_salary

------------------

100000

(1 row)

**C)**

SELECT emp\_fname, emp\_lname, department, salary, COUNT(\*) as count FROM employeeinfo GROUP BY emp\_fname, emp\_lname, department, salary HAVING COUNT(\*) > 1;

emp\_fname | emp\_lname | department | salary | count

-----------+-----------+------------+--------+-------

Rohit | Sharma | Admin | 75000 | 2

(1 row)

**D)**

SELECT \*

FROM (

SELECT \*, ROW\_NUMBER() OVER () AS row\_no

FROM employeeinfo)

AS subquery WHERE row\_no % 2 = 1

UNION ALL

SELECT \*

FROM (SELECT \*, ROW\_NUMBER() OVER () AS row\_no FROM employeeinfo)

AS subquery

WHERE row\_no % 2 = 0;

emp\_id | emp\_fname | emp\_lname | department | salary | row\_no

--------+---------------+-----------+------------+--------+--------

1 | Karan | mehta | HR | 300000 | 1

3 | Ankush | Rajput | Account | 60000 | 3

5 | Sanket | Gupta | Developer | 100000 | 5

7 | Rohit | Sharma | Admin | 75000 | 7

2 | Rohit | Sharma | Admin | 75000 | 2

4 | Priyadarshini | Sharma | HR | 500000 | 4

6 | Shruthi | Varyar | Admin | 80000 | 6

(7 rows)

**E)**

SELECT \*

FROM employeeinfo

WHERE emp\_id IN(

SELECT MIN(emp\_id)

FROM employeeinfo

UNION ALL

SELECT MAX(emp\_id)

FROM employeeinfo);

emp\_id | emp\_fname | emp\_lname | department | salary

--------+-----------+-----------+------------+--------

1 | Karan | mehta | HR | 300000

7 | Rohit | Sharma | Admin | 75000

(2 rows)

**F)**

CREATE TABLE employee AS

SELECT \*

FROM employeeinfo;

SELECT 7

SELECT \*

FROM employee;

emp\_id | emp\_fname | emp\_lname | department | salary

--------+---------------+-----------+------------+--------

1 | Karan | mehta | HR | 300000

2 | Rohit | Sharma | Admin | 75000

3 | Ankush | Rajput | Account | 60000

4 | Priyadarshini | Sharma | HR | 500000

5 | Sanket | Gupta | Developer | 100000

6 | Shruthi | Varyar | Admin | 80000

7 | Rohit | Sharma | Admin | 75000

(7 rows)

**G)**

SELECT \*

FROM employeeinfo

WHERE Department = 'Admin';

emp\_id | emp\_fname | emp\_lname | department | salary

--------+-----------+-----------+------------+--------

2 | Rohit | Sharma | Admin | 75000

6 | Shruthi | Varyar | Admin | 80000

7 | Rohit | Sharma | Admin | 75000

(3 rows)

**F)**

CREATE TABLE employee AS

SELECT \*

FROM employeeinfo;

SELECT \*

FROM employee;

emp\_id | emp\_fname | emp\_lname | department | salary

--------+---------------+-----------+------------+--------

1 | Karan | mehta | HR | 300000

2 | Rohit | Sharma | Admin | 75000

3 | Ankush | Rajput | Account | 60000

4 | Priyadarshini | Sharma | HR | 500000

5 | Sanket | Gupta | Developer | 100000

6 | Shruthi | Varyar | Admin | 80000

7 | Rohit | Sharma | Admin | 75000

(7 rows)

**G)**

SELECT department, emp\_fname, emp\_lname, salary

FROM employeeinfo

WHERE department = 'Admin'

GROUP BY department, emp\_fname, emp\_lname, salary;

department | emp\_fname | emp\_lname | salary

------------+-----------+-----------+--------

Admin | Rohit | Sharma | 75000

Admin | Shruthi | Varyar | 80000

(2 rows)

**H)**

SELECT \*

FROM employeeinfo

ORDER BY emp\_id DESC

LIMIT 3;

emp\_id | emp\_fname | emp\_lname | department | salary

--------+-----------+-----------+------------+--------

7 | Rohit | Sharma | Admin | 75000

6 | Shruthi | Varyar | Admin | 80000

5 | Sanket | Gupta | Developer | 100000

(3 rows)

**I)**

SELECT \*

FROM employeeinfo

WHERE emp\_lname LIKE '\_\_\_\_a';

emp\_id | emp\_fname | emp\_lname | department | salary

--------+-----------+-----------+------------+--------

1 | Karan | mehta | HR | 300000

5 | Sanket | Gupta | Developer | 100000

(2 rows)