Complex SQL Queries Examples with answers:

Following are some very important complex sql queries examples with answers. I have tried to explain each and every query in detail so that everyone will get idea of how it is executed step-by-step. Following are some Complex SQL Queries Examples with answers in detail.

MOST IMPORTANT QUERIES (90% ASKED IN INTERVIEWS)

1. Query to find Second Highest Salary of Employee?(click for explaination)

   **Answer:**
   
   ```sql
   Select distinct Salary from Employee e1 where 2=Select count(distinct Salary) from Employee e2 where e1.salary<=e2.salary;
   ```

2. Query to find duplicate rows in table?(click here for explaination)

   **Answer : -**
   
   ```sql
   Select * from Employee a where row_id != select max(row_id) for Employee b where a.Employee_num=b.Employee_num;
   ```

3. How to fetch monthly Salary of Employee if annual salary is given?(click here for Explanation)

   **Answer:**
   
   ```sql
   Select Employee_name,Salary/12 as 'Monthly Salary' from employee;
   ```

4. What is the Query to fetch first record from Employee table?

   **Answer:**
   
   ```sql
   Select * from Employee where Rownum =1;
   ```

5. What is the Query to fetch last record from the table?

   **Answer:**
   
   ```sql
   Select * from Employee where Rowid= select max(Rowid) from Employee;
   ```
6. What is Query to display first 5 Records from Employee table?

- Answer:

```sql
Select * from Employee where Rownum <= 5;
```

6. What is Query to display last 5 Records from Employee table?

- Answer:

```sql
Select * from Employee e where rownum <= 5
union
select * from (Select * from Employee e order by rowid desc) where rownum <= 5;
```

7. What is Query to display Nth Record from Employee table?

```sql
Select * from Employee where rownum = &n;
```

8. How to get 3 Highest salaries records from Employee table?

```sql
select distinct salary from employee a where 3 >= (select count(distinct salary) from employee b where a.salary <= b.salary) order by a.salary desc;
```

9. How to Display Odd rows in Employee table?

```sql
Select * from (Select rownum as rno,E.* from Employee E) where Mod(rno,2)=1;
```

10. How to Display Odd rows in Employee table?
Select * from (Select rownum as rno, E.* from Employee) where Mod(rno, 2) = 0;

11. How to fetch 3rd highest salary using Rank Function?

```sql
select * from (Select Dense_Rank() over (order by salary desc) as Rnk, E.* from Employee E) where Rnk = 3;
```

12. How can I create a table with the same structure as the Employee table?

```sql
Create table Employee_1 as Select * from Employee where 1 = 2;
```

13. Display first 50% records from the Employee table?

```sql
Select rownum, E.* from Employee E where rownum <= (Select count(*) / 2 from Employee);
```

14. Display first 50% records from the Employee table?

```sql
Select rownum, E.* from Employee E
minus
Select rownum, E.* from Employee E where rownum <= (Select count(*) / 2 from Employee);
```

15. How can I create a table with the same structure with data from the Employee table?

```sql
Create table Employee1 as select * from Employee;
```