Task_5_Solutions.sql

1- Duplicate Emails

```sql
select email from Person group by email having  count(email)>1  ;
```

2-Delete Duplicate Emails

```sql
DELETE P1 FROM PERSON P1, PERSON P2

    WHERE P1.EMAIL=P2.EMAIL AND P1.ID>P2.ID;
```

3-Nth Highest Salary

```sql
    CREATE FUNCTION getNthHighestSalary(N INT) RETURNS INT

   BEGIN

   set N=N-1;

    RETURN (

      select distinct  salary from Employee order by  salary desc limit 1
offset N);END
```

4-Rank Scores

```sql
select score ,

        DENSE_RANK() OVER (

             ORDER BY score  DESC

      )   AS" rank"

    FROM Scores;
```

5-Department Highest Salary

```sql
SELECT d.name as  Department, e.name as Employee, e.salary AS Salary

FROM (

    SELECT name, departmentId, salary,

            RANK() OVER (PARTITION BY departmentId ORDER BY salary DESC) AS
rnk

    FROM Employee) as e

JOIN Department as d ON e.departmentId = d.id

WHERE e.rnk = 1;
```