Answer Script

Question No. 01

1. Customers (id, Name), Orders (id, customerId) We have these two tables. Give me the names of the customers who never ordered. **25**

Answer No. 01

SQL Query:

```
SELECT c.name as Customers
FROM Customers c
LEFT JOIN orders o
ON c.id = o.customerId
WHERE o.customerId IS NULL;
```

Question No. 02

2. Following tables are given. Delete the rows of duplicate emails. **25**
   Person

```
+-------------+---------+
| Column Name | Type    |
+-------------+---------+
| id          | int     |
| email       | varchar |
+-------------+---------+
```

Input:
Person table:

```
+----+------------------+
| id | email            |
+----+------------------+
| 1  | john@example.com |
| 2  | bob@example.com  |
| 3  | john@example.com |
+----+------------------+
```

Output:

```
+----+------------------+
| id | email            |
+----+------------------+
| 1  | john@example.com |
| 2  | bob@example.com  |
+----+------------------+
```

Answer No. 02

SQL Query:

```
DELETE p1
FROM Person p1, Person p2
WHERE p1.email = p2.email AND p1.Id > p2.Id;
```

Question No. 03

3. Look at the following table **25**

```
+---------------+---------+
| Column Name   | Type    |
+---------------+---------+
| id            | int     |
| recordDate    | date    |
| temperature   | int     |
+---------------+---------+
id is the primary key for this table.
This table contains information about the temperature
on a certain day.
```

Write an SQL query to find all dates' Id with higher temperatures compared to its previous dates (yesterday).

Input:

Weather table:

```
+----+------------+-------------+
| id | recordDate | temperature |
+----+------------+-------------+
| 1  | 2015-01-01 | 10          |
| 2  | 2015-01-02 | 25          |
| 3  | 2015-01-03 | 20          |
| 4  | 2015-01-04 | 30          |
+----+------------+-------------+
```

Output:

```
+----+
| id |
+----+
| 2  |
| 4  |
+----+
```

Explanation:

In 2015-01-02, the temperature was higher than the previous day (10 -> 25).
In 2015-01-04, the temperature was higher than the previous day (20 -> 30).

Answer No. 03

SQL Query:

```
SELECT w1.id
FROM Weather w1, Weather w2
WHERE w1.temperature > w2.temperature
AND datediff(w1.recordDate, w2.recordDate)=1;
```

Question No. 04

4. From the HR Database, determine the second highest salary of an employee. **25**

Answer No. 04

SQL Query:

```
SELECT Salary
FROM Employees
ORDER BY Salary DESC
LIMIT 1 OFFSET 1;
```