Problem 612: Shortest Distance in a Plane

Problem Information

Difficulty: Medium
Acceptance Rate: 61.13%
Paid Only: Yes
Tags: Database

Problem Description

Table: `Point2D`

+-------------+------+ | Column Name | Type | +-------------+------+ | x | int | | y | int | +-------------+------+ (x, y) is the primary key column (combination of columns with unique values) for this table. Each row of this table indicates the position of a point on the X-Y plane.

The distance between two points `p1(x1, y1)` and `p2(x2, y2)` is `sqrt((x2 - x1)2 + (y2 - y1)2)`.

Write a solution to report the shortest distance between any two points from the `Point2D` table. Round the distance to **two decimal points**.

The result format is in the following example.

Example 1:

Input: Point2D table: +----+----+ | x | y | +----+----+ | -1 | -1 | | 0 | 0 | | -1 | -2 | +----+----+ **Output:** +----------+ | shortest | +----------+ | 1.00 | +----------+ **Explanation:** The shortest distance is 1.00 from point (-1, -1) to (-1, 2).

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```