Problem 1070: Product Sales Analysis III

Problem Information

Difficulty: Medium
Acceptance Rate: 45.20%
Paid Only: No
Tags: Database

Problem Description

Table: `Sales`

+-------------+-------+ | Column Name | Type | +-------------+-------+ | sale_id | int | | product_id | int | | year | int | | quantity | int | | price | int | +-------------+-------+ (sale_id, year) is the primary key (combination of columns with unique values) of this table. Each row records a sale of a product in a given year. A product may have multiple sales entries in the same year. Note that the per-unit price.

Write a solution to find all sales that occurred in the **first year** each product was sold.

* For each `product_id`, identify the earliest `year` it appears in the `Sales` table.

* Return **all** sales entries for that product in that year.

Return a table with the following columns: **product_id** ,**first_year** , **quantity,** and**price**. Return the result in any order.

Example 1:

Input: Sales table: +---------+------------+------+----------+-------+ | sale_id | product_id | year | quantity | price | +---------+------------+------+----------+-------+ | 1 | 100 | 2008 | 10 | 5000 | | 2 | 100 | 2009 | 12 | 5000 | | 7 | 200 | 2011 | 15 | 9000 | +---------+------------+------+----------+-------+ **Output:** +------------+------------+----------+-------+ | product_id | first_year | quantity | price | +------------+------------+----------+-------+ | 100 | 2008 | 10 | 5000 | | 200 | 2011 | 15 | 9000 | +------------+------------+----------+-------+

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
```