1070. Product Sales Analysis III

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.
product_id is a foreign key (reference column) to Product table.
Each row of this table shows a sale on the product product_id in a certain year.
Note that the price is per unit.

Table: Product

```
+--------------+---------+
| Column Name  | Type    |
+--------------+---------+
| product_id   | int     |
| product_name | varchar |
+--------------+---------+
```

product_id is the primary key (column with unique values) of this table.
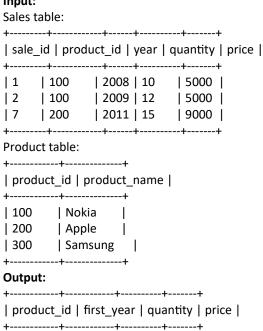Each row of this table indicates the product name of each product.

Write a solution to select the **product id**, **year**, **quantity**, and **price** for the **first year** of every product sold.
Return the resulting table in **any order**.
The result format is in the following example.

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  |
+---------+------------+------+----------+-------+
```

Product table:

```
+------------+--------------+
| product_id | product_name |
+------------+--------------+
| 100        | Nokia        |
| 200        | Apple        |
| 300        | Samsung      |
+------------+--------------+
```

Output:

```
+------------+------------+----------+-------+
| product_id | first_year | quantity | price |
+------------+------------+----------+-------+
| 100        | 2008       | 10       | 5000  |
```

| 200 | 2011 | 15 | 9000 |
+------------+------------+----------+-------+

```
# Write your MySQL query statement below
select s.product_id,s.year as first_year,s.quantity, s.price
from Sales s
right join  (select product_id,min(year) as year from Sales group by product_id) a on s.product_id=a.product_id
and s.year=a.year;


with
first_year as (
  select
    product_id,
    min(year) as first_year
  from
    Sales
  group by
    1
)

select
  s.product_id,
  s.year as first_year,
  s.quantity,
  s.price
from
  Sales as s
inner join
  first_year as f
on
  s.product_id = f.product_id
  and s.year = f.first_year
```