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
product_id is a foreign key (reference column) to Product 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	quant	tity	price

Output:

SOLUTION

MySQL:

- Select product_id, year as first_year, quantity and price
- Define the condition of the product by using WHERE and IN
- In a subquery, select product_id and the earliest year using MIN() and GROUP BY

```
SELECT product_id, year first_year, quantity, price
FROM Sales
WHERE (product_id, year) IN
(SELECT product_id, MIN(year))
FROM Sales
GROUP BY product_id)
```

PostgreSQL:

- Same approach as above

```
SELECT product_id, year first_year, quantity, price
FROM Sales s
WHERE (product_id, year) IN (SELECT product_id, MIN(year) first_year
FROM Sales
GROUP BY 1)
```