

1384. Total Sales Amount by Year Premium

Hard Topics

SQL Schema > Pandas Schema >

Table: Product

Column Name	Type
product_id	int
product_name	varchar

product\_id is the primary key (column with unique values) for this table.  
product\_name is the name of the product.

Table: Sales

Column Name	Type
product_id	int
period_start	date
period_end	date
average_daily_sales	int

product\_id is the primary key (column with unique values) for this table.  
period\_start and period\_end indicate the start and end date for the sales period, and both dates are inclusive.  
The average\_daily\_sales column holds the average daily sales amount of the items for the period.  
The dates of the sales years are between 2018 to 2020.

Write a solution to report the total sales amount of each item for each year, with corresponding product\_name, product\_id, report\_year, and total\_amount.

Return the result table **ordered** by product\_id and report\_year.

The result format is in the following example.

Example 1:

**Input:**

Product table:

product_id	product_name
1	LC Phone
2	LC T-Shirt
3	LC Keychain

Sales table:

product_id	period_start	period_end	average_daily_sales
1	2019-01-25	2019-02-28	100
2	2018-12-01	2020-01-01	10
3	2019-12-01	2020-01-31	1

**Output:**

product_id	product_name	report_year	total_amount
1	LC Phone	2019	3500
2	LC T-Shirt	2018	310
2	LC T-Shirt	2019	3650
2	LC T-Shirt	2020	10
3	LC Keychain	2019	31
3	LC Keychain	2020	31

**Explanation:**

LC Phone was sold for the period of 2019-01-25 to 2019-02-28, and there are 35 days for this period. Total amount 35\*100 = 3500.

LC T-shirt was sold for the period of 2018-12-01 to 2020-01-01, and there are 31, 365, 1 days for years 2018, 2019 and 2020 respectively.

LC Keychain was sold for the period of 2019-12-01 to 2020-01-31, and there are 31, 31 days for years 2019 and 2020 respectively.

Seen this question in a real interview before? 1/5

Yes No

Accepted 17.4K | Submissions 28.5K | Acceptance Rate 60.9%

Topics

Database

Discussion (13)