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1384. Total Sales Amount by Year

Hard 22 4 Add to List Share

[SQL Schema >](#)

Table: Product

Column Name	Type
product_id	int
product_name	varchar

product_id is the primary key for this table.
product_name is the name of the product.

Table: Sales

Column Name	Type
product_id	int
period_start	varchar
period_end	date
average_daily_sales	int

product_id is the primary key for this table.
period_start and period_end indicates the start and end date for sales period, both dates are inclusive.
The average_daily_sales column holds the average daily sales amount of the items for the period.

Write an SQL query to report the Total sales amount of each item for each year, with corresponding product name, product_id, product_name and report_year.

Dates of the sales years are between 2018 to 2020. Return the result table ordered by product_id and report_year.

The query result format is in the following example:

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

Result table:

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

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.

Accepted 721 | Submissions 1,173

Seen this question in a real interview before?

Contributor