

Description Solution Submissions Discuss (27)

## 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  $35 \times 100 = 3500$ .

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?

Yes

No

Contributor