SQL Schema

Table: Product

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| Column Name | Type |

+---------------+---------+

| product\_id | int |

| product\_name | varchar |

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product\_id is the primary key for this table.

product\_name is the name of the product.

Table: Sales

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| Column Name | Type |

+---------------------+---------+

| product\_id | int |

| period\_start | date |

| period\_end | date |

| average\_daily\_sales | int |

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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.