Monthly Product Sales

monthly_sales Table

| month | product_id | amount_sold |
|------------|------------|-------------|
| 2021-01-01 | 1 | 100 |
| 2021-01-01 | 2 | 300 |
| 2021-02-01 | 3 | 200 |
| 2021-03-01 | 4 | 250 |

Given a table containing data for monthly sales, write a query to find the total amount of each product sold for each month with each product as its own column in the output table.

Output Table:

| month | 1 | 2 | 3 | 4 |
|------------|-----|-----|-----|-----|
| 2021-01-01 | 100 | 0 | 300 | 0 |
| 2021-02-01 | 0 | 200 | 0 | 0 |
| 2021-03-01 | 0 | 0 | 0 | 250 |