3. You are the business owner and would like to obtain a sales report for category items and day of the week.

* Write an SQL query to report how many units in each category have been ordered on each day of the week.
* Return the result table ordered by category.
* The query result format is in the following example:
* **Orders table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **order\_id** | **customer\_id** | **order\_date** | **item\_id** | **quantity** |
| 1 | 1 | 2020-06-01 | 1 | 10 |
| 2 | 1 | 2020-06-08 | 2 | 10 |
| 3 | 2 | 2020-06-02 | 1 | 5 |
| 4 | 3 | 2020-06-03 | 3 | 5 |
| 5 | 4 | 2020-06-04 | 4 | 1 |
| 6 | 4 | 2020-06-05 | 5 | 5 |
| 7 | 5 | 2020-06-05 | 1 | 10 |
| 8 | 5 | 2020-06-14 | 4 | 5 |
| 9 | 5 | 2020-06-21 | 3 | 5 |

* **Items table:**

|  |  |  |
| --- | --- | --- |
| **item\_id** | **item\_name** | **item\_category** |
| 1 | LC Alg. Book | Book |
| 2 | LC DB. Book | Book |
| 3 | LC SmartPhone | Phone |
| 4 | LC Phone 2020 | Phone |
| 5 | LC SmartGlass | Glasses |
| 6 | LC T-Shirt XL | T-Shirt |

* **Result table:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Category** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
| **Book** | 20 | 5 | 0 | 0 | 10 | 0 | 0 |
| **Glasses** | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| **Phone** | 0 | 0 | 5 | 1 | 0 | 0 | 10 |
| **T-Shirt** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

--------------------------------------------------------------------------------------------------------------------------------------**ANSWER**

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SELECT

items.item\_category AS Category,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 1 THEN orders.quantity ELSE 0 END) AS Monday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 2 THEN orders.quantity ELSE 0 END) AS Tuesday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 3 THEN orders.quantity ELSE 0 END) AS Wednesday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 4 THEN orders.quantity ELSE 0 END) AS Thursday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 5 THEN orders.quantity ELSE 0 END) AS Friday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 6 THEN orders.quantity ELSE 0 END) AS Saturday,

SUM(CASE WHEN EXTRACT(DOW FROM orders.order\_date) = 0 THEN orders.quantity ELSE 0 END) AS Sunday

FROM

items

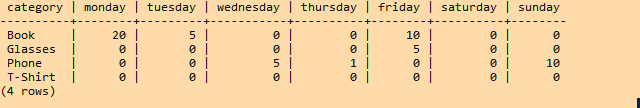
LEFT JOIN orders ON items.item\_id = orders.item\_id

GROUP BY

items.item\_category

ORDER BY

items.item\_category;

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