Highest-Grossing Items [Amazon SQL Interview Question]

This is the same question as problem #12 in the SQL Chapter of Ace the Data Science Interview!

Assume you're given a table containing data on Amazon customers and their spending on products in different category, write a query to identify the top two highest-grossing products within each category in the year 2022. The output should include the category, product, and total spend.

`product_spend` Table:

Column Name	Type
category	string
product	string
user_id	integer
spend	decimal
transaction_date	timestamp

`product_spend` Example Input:

category	product	user_id	spend	transaction_date
appliance	refrigerator	165	246.00	12/26/2021 12:00:00
appliance	refrigerator	123	299.99	03/02/2022 12:00:00
appliance	washing machine	123	219.80	03/02/2022 12:00:00
electronics	vacuum	178	152.00	04/05/2022 12:00:00
electronics	wireless headset	156	249.90	07/08/2022 12:00:00

category	product	user_id	spend	transaction_date
electronics	vacuum	145	189.00	07/15/2022 12:00:00

Example Output:

category	product	total_spend
appliance	refrigerator	299.99
appliance	washing machine	219.80
electronics	vacuum	341.00
electronics	wireless headset	249.90

Explanation:

Within the "appliance" category, the top two highest-grossing products are "refrigerator" and "washing machine."

In the "electronics" category, the top two highest-grossing products are "vacuum" and "wireless headset."

The dataset you are querying against may have different input & output - **this is just an example**!