Week04 – SQL - QUESTIONS

These questions and queries cover a wide range of scenarios commonly encountered in a MKTIME database, utilising joins, subqueries, and aggregate functions to extract meaningful output from the database.

1. List all products.

|  |  |  |
| --- | --- | --- |
| Code | Expected Answer | Actual Answer |
| SELECT \* FROM view\_items | How many records you expect to display: 10 | 10 rows |
|  |  |  |
|  |  |  |

A screenshot of a computer

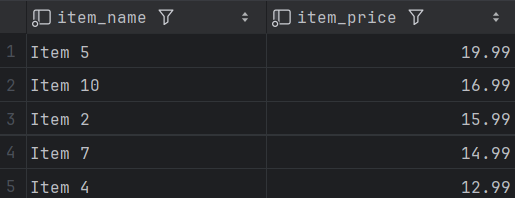
Description automatically generated2. Find the total sales amount for each product.

SELECT item\_id, *SUM*(total) AS total\_sales  
FROM view\_orders  
GROUP BY item\_id;

3. List all users who made purchase on 3rd May 2023.

A screenshot of a computer

Description automatically generatedSELECT user\_id, order\_date  
FROM view\_orders  
WHERE order\_date = '2023-05-03';

4. Find the top 5 costing items.

SELECT item\_name, item\_price  
FROM view\_items  
ORDER BY item\_price DESC  
LIMIT 5

A screenshot of a computer

Description automatically generated5. List all items and who purchased those items.

SELECT u.firstname, o.item\_id  
FROM view\_orders o, view\_users u  
WHERE o.user\_id = u.user\_id  
ORDER BY o.item\_id ASC

A screenshot of a computer

Description automatically generated

6. Find the total order value for each user.

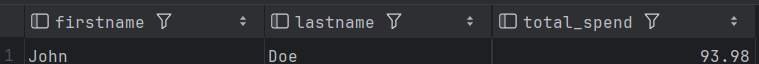
SELECT user\_id, *SUM*(payment\_amount) AS order\_value  
FROM view\_payment  
GROUP BY user\_id;

A screenshot of a computer

Description automatically generated7. List all products with their corresponding orders.

SELECT i.item\_name, o.total, o.order\_date, o.quantity  
FROM view\_orders o, view\_items i  
WHERE i.item\_id = o.item\_id  
ORDER BY i.item\_name;

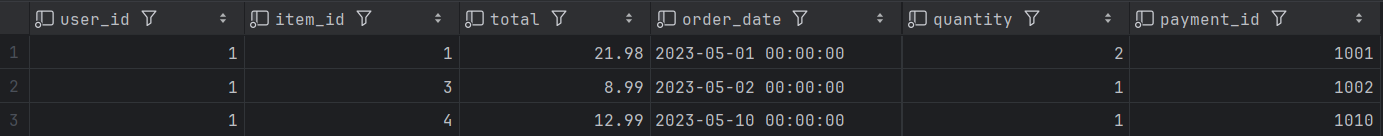
8. Find the customer who spent the most in total.

SELECT u.firstname, u.lastname, *SUM*(payment\_amount) as total\_spend  
FROM view\_payment p, view\_users u  
WHERE u.user\_id = p.user\_id  
GROUP BY p.user\_id  
ORDER BY total\_spend DESC  
LIMIT 1

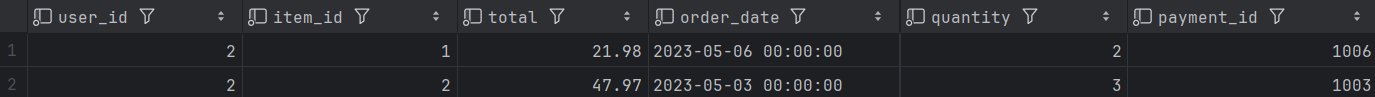
9. Find the top 3 categories with the highest total sales.

?? No categories given

11. List all orders made by a specific customer (e.g., John Doe).

SELECT \*  
FROM view\_orders  
WHERE user\_id = 1

12. Find the number of orders placed by user\_id = 2.

SELECT \*  
FROM view\_orders  
WHERE user\_id = 2

A screenshot of a computer

Description automatically generated13. List all items with their respective quantities sold.

SELECT item\_id, *SUM*(quantity) as Total\_Sold  
FROM view\_orders  
GROUP BY item\_id

14. Find the total sales made by each user.

A screenshot of a computer

Description automatically generatedSELECT u.firstname, u.lastname, *SUM*(payment\_amount) as total\_spend  
FROM view\_payment p, view\_users u  
WHERE u.user\_id = p.user\_id  
GROUP BY p.user\_id  
ORDER BY total\_spend DESC