**QUESTION 1:**

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| --- |
| SOLUTION:  SELECT p.productid, p.name  FROM production.product p  WHERE p.listprice <= 100  AND p.safetystocklevel <= 250; |

**QUESTION 2:**

|  |
| --- |
| SOLUTION:  SELECT distinct p.class, p.style  FROM production.product p  WHERE p.class IS NOT NULL AND p.style IS NOT NULL; |

**QUESTION 3:**

|  |
| --- |
| SOLUTION:  SELECT p.productid, p.name  FROM production.product p  WHERE CAST(p.listprice AS MONEY) > '$3000'; |

**QUESTION 4:**

|  |
| --- |
| SOLUTION:  SELECT p.productid, p.name, p.productnumber  FROM production.product p  WHERE p.name IN ('Spokes', 'Stem', 'Sport-100 Helmet, Red'); |

**QUESTION 5:**

|  |
| --- |
| SOLUTION:  SELECT p.name  FROM production.product p  WHERE p.productnumber LIKE 'FR-%'  Or…  SELECT p.name  FROM production.product p  WHERE p.name ilike '%frame%'; |

**QUESTION 6:**

|  |
| --- |
| SOLUTION:  SELECT p.size, p.weight, CAST(AVG(p.listprice) AS MONEY) as "avglistprice"  FROM production.product p  WHERE p.productnumber LIKE 'FR-%' AND p.name LIKE '%Mountain%'  GROUP BY p.size, p.weight  ORDER BY p.size ASC; |

**QUESTION 7:**

|  |
| --- |
| SOLUTION:  SELECT od.salesorderid, SUM(CAST(od.orderqty \* od.unitprice AS MONEY)) AS "totalsales"  FROM sales.salesorderdetail od  GROUP BY od.salesorderid  ORDER BY SUM(CAST(od.orderqty \* od.unitprice AS MONEY)) DESC  LIMIT 10; |

**QUESTION 8:**

|  |
| --- |
| SELECT oh.salesorderid, CAST(oh.freight AS MONEY)  FROM sales.salesorderheader oh  WHERE salesorderid IN (  SELECT od.salesorderid  FROM sales.salesorderdetail od  GROUP BY od.salesorderid  ORDER BY SUM(CAST(od.orderqty \* od.unitprice AS MONEY)) DESC  LIMIT 1) |

**STRETCH QUESTION:**

You are proud of this work and you want to share it with the rest of the team. However, Question 8 results in a complicated query that would be tough for someone who was not an advanced SQL user to pick up and understand.

**Take the query above and add some comments explaining how it works, using the correct syntax for commenting in SQL. Aim to write a couple of full sentences at the beginning of the query explaining how it works, and add at least 3 shorter, 1 line comments throughout the code.**