ISQS 334
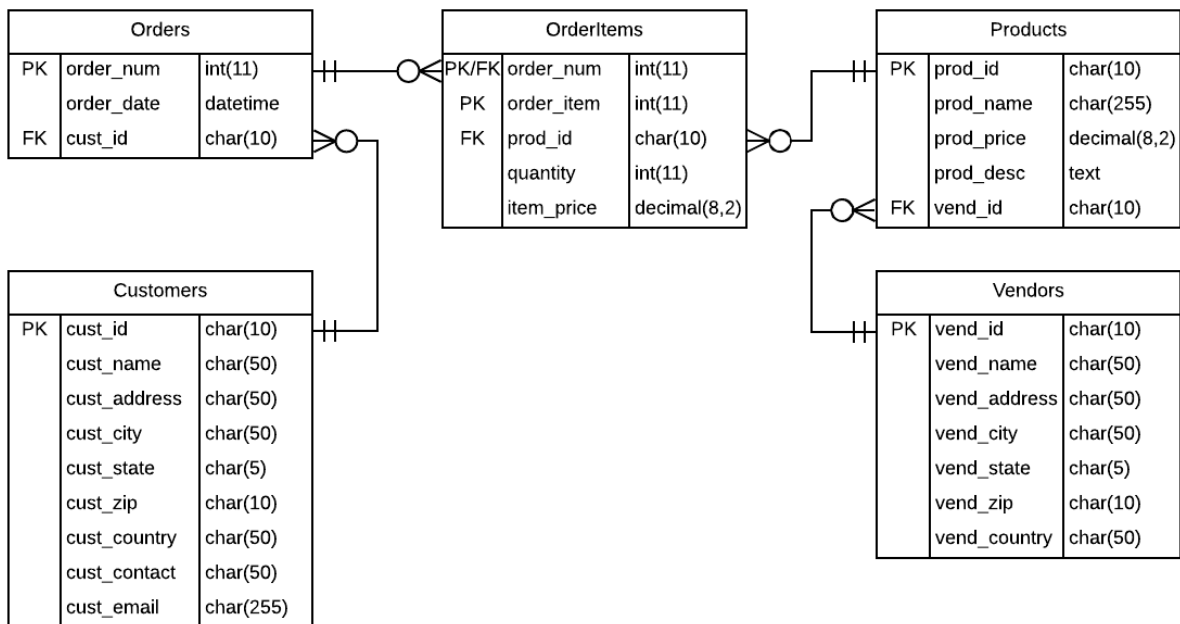**Individual Assignment-4 (IA-4)**

Manipulating, Summarizing, and Grouping Data

This is an <u>individual assignment</u>,and as such please submit your own work. Submit your answers as a **Word file** to the Blackboard course website by the due date. Use the following diagram and the *sams_textbook* database on the Blackboard course site.

For each question, please capture a screenshot containing (1) your SQL query and (2) the corresponding result, and copy the screenshot to this word file below each question.

1. How many products do we stock? Label the field.

```
1      #1:
2  •   SELECT COUNT(*) AS number_of_products_in_stock
3      FROM Products;
4
5      #2:
```
100%   ⇕   15:3

Result Grid | 🔽 Filter Rows: 🔍 Search   Export: 🗄️

number_of_products_in_st...
14

2. What was the date of the most recent order? Label the field.

```
5      #2:
6  •   SELECT MAX(Order_Date) AS most_recent_order_date
7      FROM Orders;
8
9      #3:
```
100%   ⇕   1:8

Result Grid | 🔽 Filter Rows: 🔍 Search   Export: 🗄️

most_recent_order_d...
2012-05-01 00:00:00

3. What was the average price of all items ordered? Label the field.

```
 9      #3:
10  ●   SELECT AVG(item_price) AS average_item_price
11      FROM OrderItems;
12      |
13      #4:
```

100%   ◇   1:12

Result Grid | 🔢 ↩   Filter Rows: 🔍 Search   Export: 💾

average_item_pri...
5.740000

4. List the order numbers and total number of items from each order number. Ensure each field is labeled.

```
12
13      #4:
14  ●   SELECT order_num, count(order_item) AS total_items
15      FROM OrderItems
16      GROUP BY order_num;
17      |
```

100%   ◇   1:17

Result Grid | 🔢 ↩   Filter Rows: 🔍 Search   Export: 💾

order_num	total_items
20005	2
20006	3
20007	5
20008	5
20009	3

5. List the country and the number of vendors in each country. Sort the list by the number of vendors in each country, greatest first. Ensure each field is labeled.

```
18      #5:
19 •    SELECT vend_country, COUNT(*) AS number_of_vendors
20      FROM Vendors
21      GROUP BY vend_country
22      ORDER BY number_of_vendors DESC;
23
```

100%   ⇕   33:22

Result Grid   Filter Rows: Search   Export:

vend_country	number_of_vend...
USA	4
England	1
France	1

6. List the vendors (by ID only) and the number of products they offer which come with an accessory/ accessories (listed as *with* in the product description). Sort the list by the number of products, greatest first. Ensure each field is labeled.

```
23
24      #6:
25 •    SELECT vend_id, COUNT(*) AS number_of_products_with_accessories
26      FROM Products
27      WHERE prod_desc LIKE '%with%'
28      GROUP BY vend_id
29      ORDER BY number_of_products_with_accessories DESC;
30
```

100%   ⇕   51:29

Result Grid   Filter Rows: Search   Export:

vend_id	number_of_products_with_accesso...
BRS01	3
DLL01	2
FNG01	2