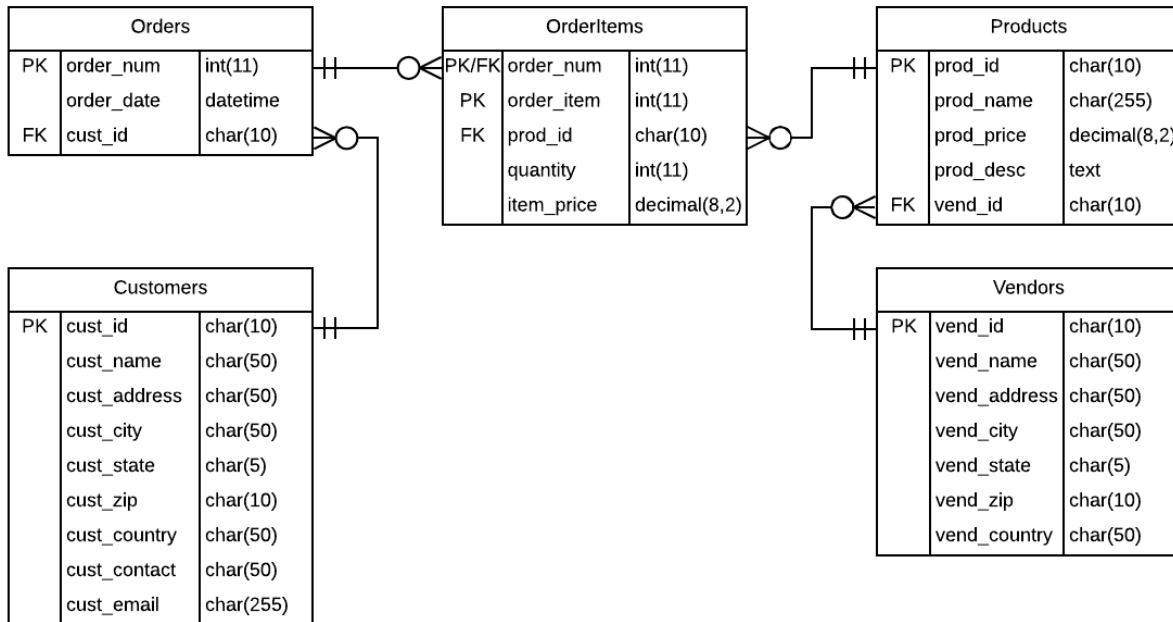**ISQS 3348**

SQL Practice1 – Selecting, Filtering, and Sorting Data

Use the *sams_textbook* **database** on the Blackboard course website.
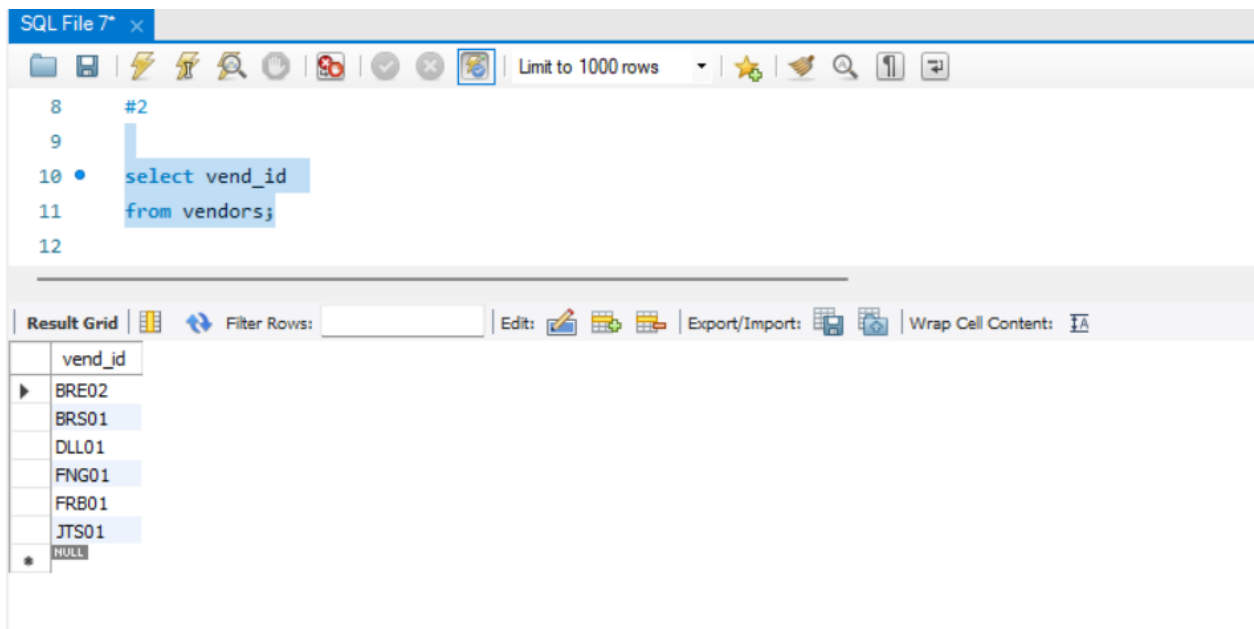
Write the SQL queries that answer the questions below (and on the reverse) using the following diagram:

Orders		
PK	order_num	int(11)
	order_date	datetime
FK	cust_id	char(10)

OrderItems		
PK/FK	order_num	int(11)
PK	order_item	int(11)
FK	prod_id	char(10)
	quantity	int(11)
	item_price	decimal(8,2)

Products		
PK	prod_id	char(10)
	prod_name	char(255)
	prod_price	decimal(8,2)
	prod_desc	text
FK	vend_id	char(10)

Customers		
PK	cust_id	char(10)
	cust_name	char(50)
	cust_address	char(50)
	cust_city	char(50)
	cust_state	char(5)
	cust_zip	char(10)
	cust_country	char(50)
	cust_contact	char(50)
	cust_email	char(255)

Vendors		
PK	vend_id	char(10)
	vend_name	char(50)
	vend_address	char(50)
	vend_city	char(50)
	vend_state	char(5)
	vend_zip	char(10)
	vend_country	char(50)

1. Which customers do we have? List all the data we have about them.

2. What is the name of each of our Vendors?

```
SQL File 7*  ×

8      #2
9
10 •   select vend_id
11     from vendors;
12
```
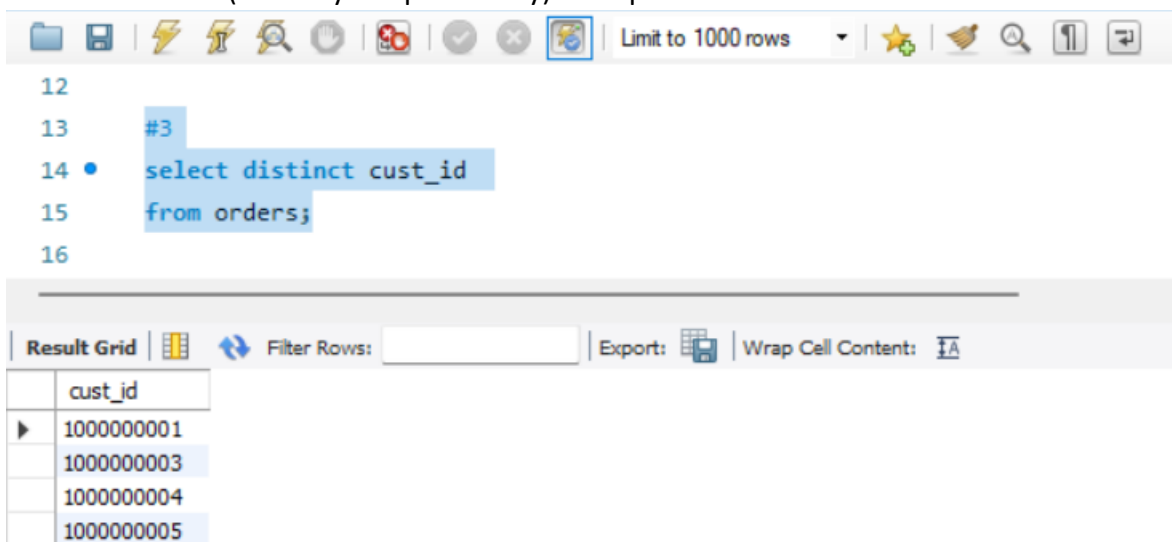
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 𝐼̲A

vend_id
▶ BRE02
BRS01
DLL01
FNG01
FRB01
JTS01
• NULL

3. What customers (listed by unique ID only) have placed orders?

```
Limit to 1000 rows

12
13     #3
14 •   select distinct cust_id
15     from orders;
16
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝐼̲A

cust_id
▶ 1000000001
1000000003
1000000004
1000000005

4. What are the names and prices of the products we offer? List from most to least expensive.

```
19
20      #4
21 •    select  distinct prod_name, prod_price
22      from products
23      order by prod_price desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

prod_name	prod_price
Test Product	100.00
18 inch teddy bear	11.99
King doll	9.49
Prince doll	9.49
Queen doll	9.49
12 inch teddy bear	8.99
8 inch teddy bear	5.99
Raggedy Ann	4.99
Bird bean bag toy	3.49
Fish bean bag toy	3.49
Rabbit bean bag toy	3.49

5. What products are offered by a vendor that has an ID of *BRS01* in the database? Please return those products' name and price.
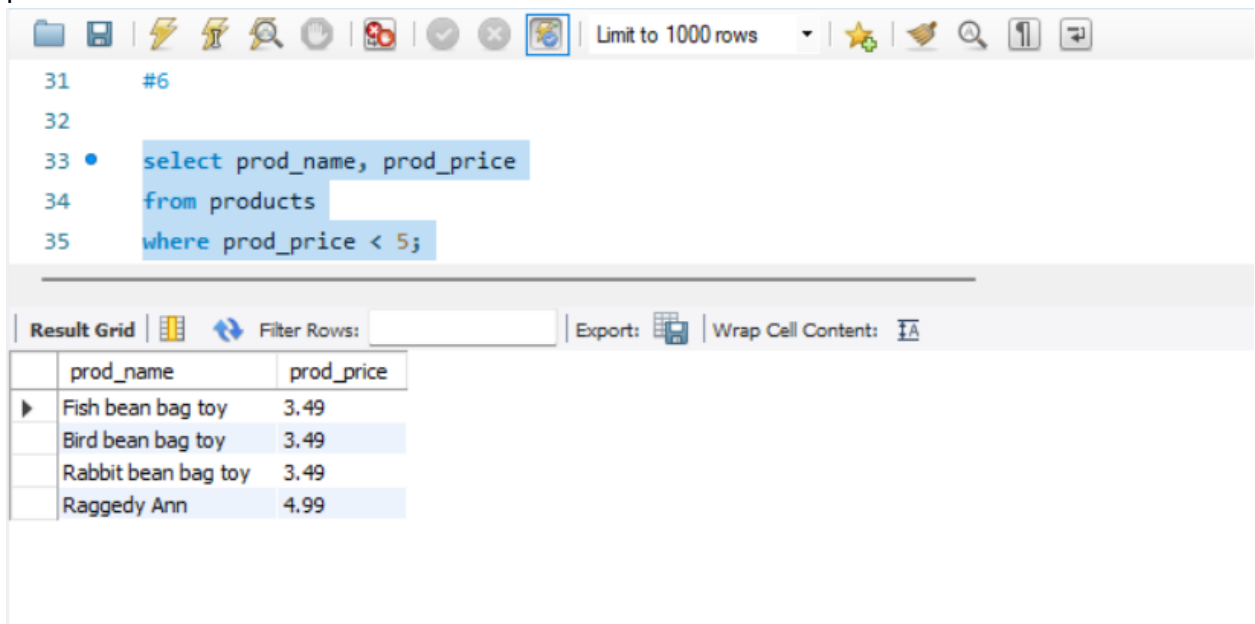
```
25      #5
26
27 •    select prod_name, prod_price
28      from products
29      where vend_id = "BRS01";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

prod_name	prod_price
8 inch teddy bear	5.99
12 inch teddy bear	8.99
18 inch teddy bear	11.99

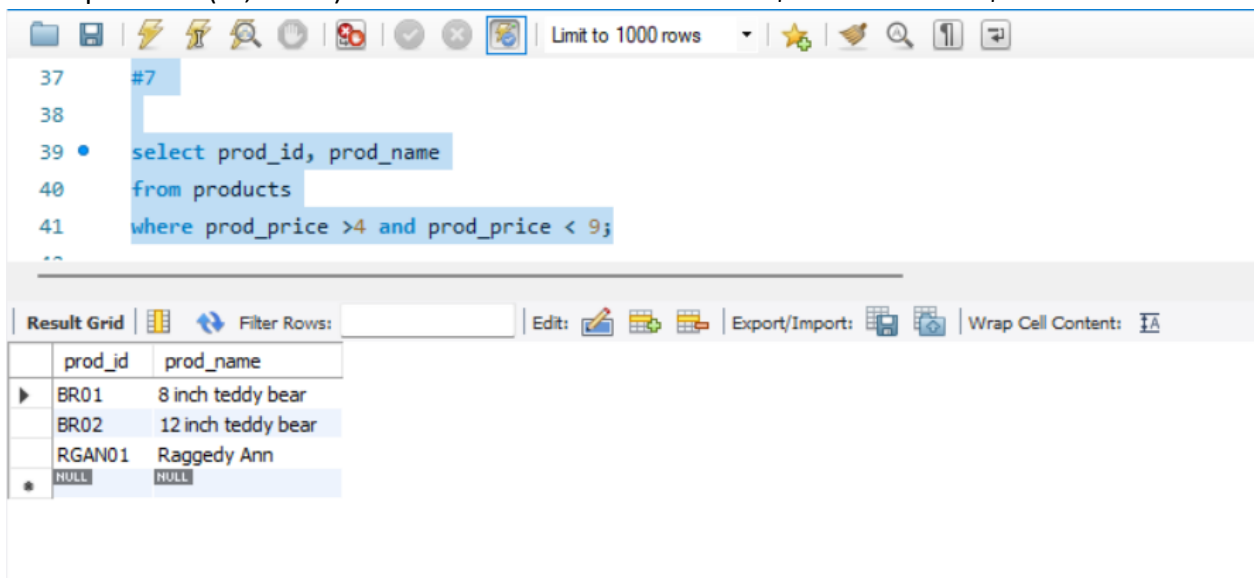6. What products do we offer that cost less than $5? Please return those products' name and price.

```
31     #6
32
33 ●   select prod_name, prod_price
34     from products
35     where prod_price < 5;
```

Result Grid | Filter Rows: Export: | Wrap Cell Content:

prod_name	prod_price
▶ Fish bean bag toy	3.49
Bird bean bag toy	3.49
Rabbit bean bag toy	3.49
Raggedy Ann	4.99

7. What products (ID, name) do we offer that cost more than $4 but less than $9?
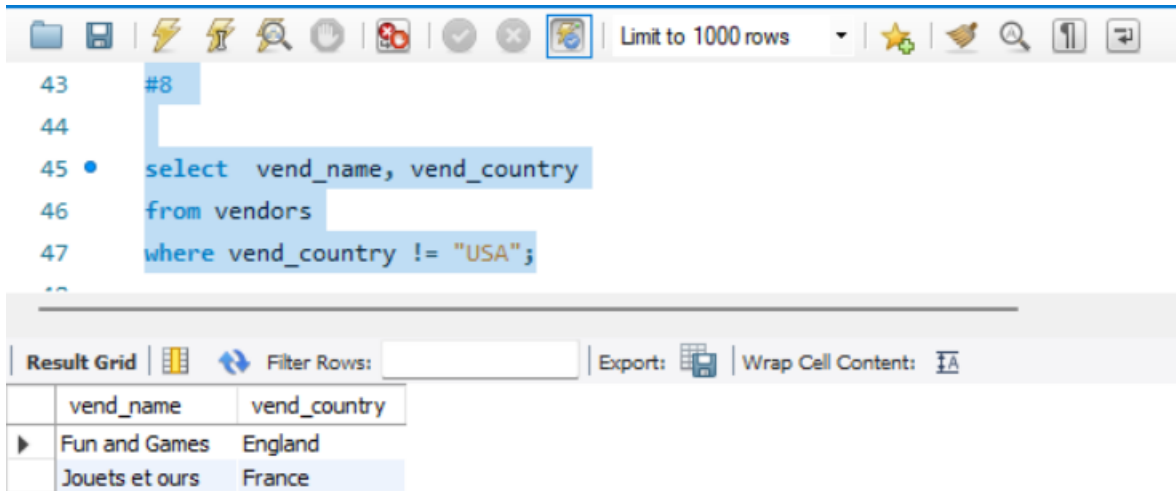
```
37     #7
38
39 ●   select prod_id, prod_name
40     from products
41     where prod_price >4 and prod_price < 9;
```

Result Grid | Filter Rows: Edit: | Export/Import: | Wrap Cell Content:

prod_id	prod_name
▶ BR01	8 inch teddy bear
BR02	12 inch teddy bear
RGAN01	Raggedy Ann
NULL	NULL

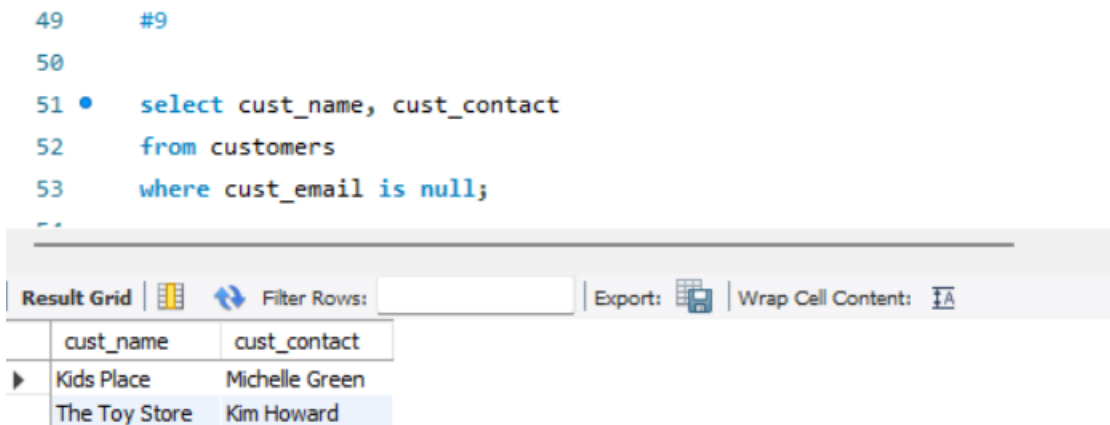8. Which vendors are located outside of the United States of America? Please return their name and country.

```
43      #8

44

45 •    select  vend_name, vend_country
46      from vendors
47      where vend_country != "USA";
```

	vend_name	vend_country
▶	Fun and Games	England
	Jouets et ours	France

9. Which customers do not have an email address listed? Please return the customers' names and their contacts.
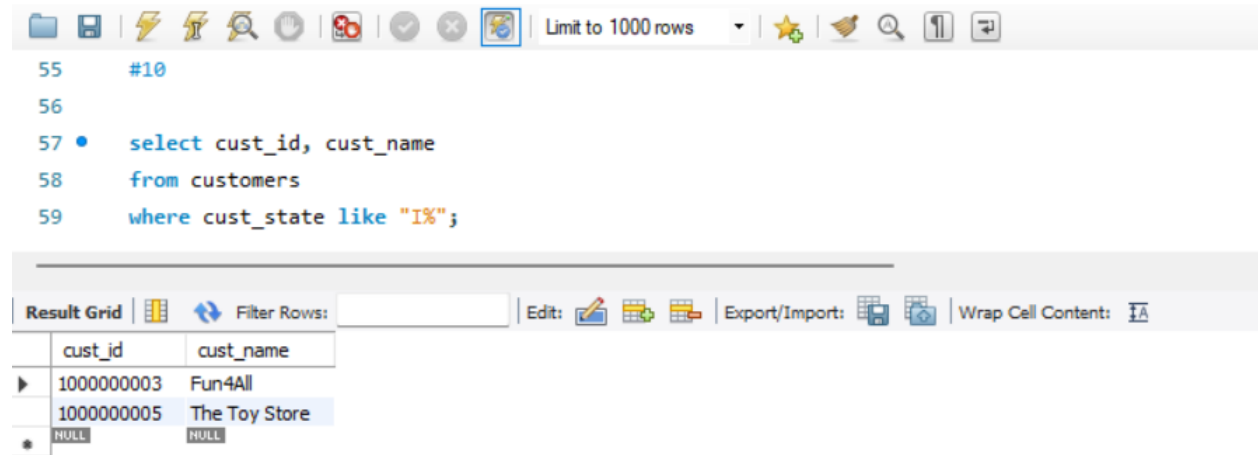
```
49      #9

50

51 •    select cust_name, cust_contact
52      from customers
53      where cust_email is null;
```

	cust_name	cust_contact
▶	Kids Place	Michelle Green
	The Toy Store	Kim Howard

10. What customers (ID, name) are located in a state that begin with the letter 'I'? Please
return those customers' ID and name and the associated state.

```
55      #10
56
57 •    select cust_id, cust_name
58      from customers
59      where cust_state like "I%";
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

cust_id	cust_name
1000000003	Fun4All
1000000005	The Toy Store
NULL	NULL