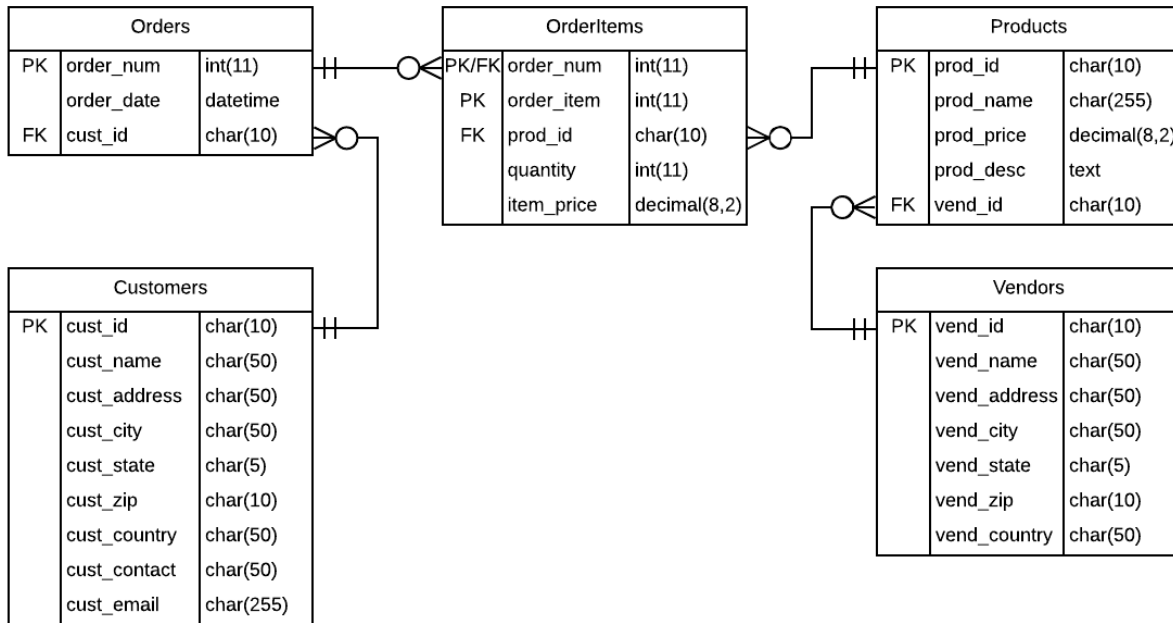


## ISQS 3348 – Database Management Systems

### Individual Assignment-5 – Subqueries, Joines, Inserting, Updating, and Deleting Data

Write the SQL queries that answer the questions below (and on the reverse) using the following diagram (i.e., the Sams Textbook database):



1. What is the name of the vendor who makes the *Fish bean bag toy*? Show your answer using both the subquery method and the join method (i.e., write two separate queries).

```
3  #1
4  SELECT vend_name
5  FROM Vendors
6  WHERE vend_id = (
7      SELECT vend_id
8      FROM Products
9      WHERE prod_name = 'Fish bean bag toy'
10 )
11
```

Result Grid

vend_name
Doll House Inc.

```

11
12 # Option 2
13
14 • SELECT V.vend_name
15 FROM Vendors V
16 JOIN Products P ON V.vend_id = P.vend_id
17 WHERE P.prod_name = 'Fish bean bag toy';
18
19 #2

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
vend_name			
▶ Doll House Inc.			

2. What is the average product price for each vendor?

```

19 #2
20 • SELECT V.vend_name, AVG(P.prod_price) as average_price
21 FROM Vendors V
22 JOIN Products P ON V.vend_id = P.vend_id
23 GROUP BY V.vend_name;
24

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
vend_name	average_price		
▶ Doll House Inc.	51.932500		
Bears R Us	8.990000		
Fun and Games	9.490000		

3. What is the average product price for vendor *Doll House Inc.*?

```

25      #3
26      • SELECT AVG(prod_price) as average_price
27      FROM Products
28      WHERE vend_id = (
29          SELECT vend_id
30          FROM Vendors
31          WHERE vend_name = 'Doll House Inc.'
32      );

```

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

	average_price
▶	51.932500

4. Which customers bought products sourced from vendors from *USA* (return those customers' names)?

```

34      #4
35
36      • SELECT DISTINCT C.cust_name
37      FROM Customers C
38      JOIN Orders O ON C.cust_id = O.cust_id
39      JOIN OrderItems OT ON O.order_num = OT.order_num
40      JOIN Products P ON OT.prod_id = P.prod_id
41      JOIN Vendors V ON P.vend_id = V.vend_id
42      WHERE V.vend_country = 'USA';
43

```

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

	cust_name
▶	Village Toys
	Fun4All
	The Toy Store

5. What other products (return those products' names) are offered by vendors who offer products with *doll* in the product description?

```

43
44     #5
45
46 •   SELECT P2.prod_name
47     FROM Products P1
48     JOIN Vendors V ON P1.vend_id = V.vend_id
49     JOIN Products P2 ON V.vend_id = P2.vend_id
50     WHERE P1.prod_desc LIKE '%doll%'
51     AND P2.prod_desc NOT LIKE '%doll%';
52

```

---

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

	prod_name
▶	Fish bean bag toy
	Bird bean bag toy
	Rabbit bean bag toy

- Using one INSERT statement, insert two records (id, name, city, state, zip, country) into the vendors table with IDs *GRE01* and *STK01*. Vendor with ID *GRE01* is located in Paris, France, and as such does not have a value for state to input. Make up the remainder of the data to insert.

```

52
53     #6
54 •   INSERT INTO Vendors (vend_id, vend_name, vend_address, vend_city, vend_state, vend_zip, vend_country)
55     VALUES
56     ('GRE01', 'Green Paris', '123 Champs-Élysées', 'Paris', NULL, '75008', 'France'),
57     ('STK01', 'Stockholm Supplies', '456 Viking Way', 'Stockholm', 'AB', '10012', 'Sweden');
58

```

- A mistake was made, and the vendor with ID *GRE01* is actually located in Paris, Texas, with a zip code of *75460*. Using one statement, update this vendors state, zip, and country.

```

59     #7
60 •   UPDATE Vendors
61     SET vend_city = 'Paris', vend_state = 'TX', vend_zip = '75460', vend_country = 'USA'
62     WHERE vend_id = 'GRE01';
63

```

8. You no longer do business with several vendors, with IDs *GRE01* and *STK01*. Using one SQL statement, delete them from your database.

```
64      #8
65
66 •   DELETE FROM Vendors
67     WHERE vend_id IN ('GRE01', 'STK01');
68
69
```