Kristin Pflug

Lab 6: Pizza

1.) Find all people who are male and over 18
QUERY: SELECT * FROM person WHERE gender = 'male' AND age > 18;

```
1    #Question 1
2    #Find all people who are male and over 18
3 •  SELECT * FROM person WHERE gender = 'male' AND age > 18;
4
5
```

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

name	age	gender
▶ Ben	21	male
Cal	33	male
Eli	45	male
Gus	24	male

2.) Find the names of people who are female and age 30 or more.
QUERY: SELECT name FROM person WHERE gender = 'female' AND age >= 30;

```
5    #Question 2
6    #Find the names of people who are female and age 30 or more.
7 •  SELECT name FROM person WHERE gender = 'female' AND age >= 30;
8
9
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:
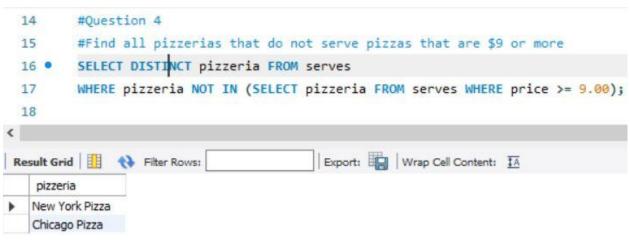
name
▶ Hil

3.) Find the name of males over 20 years old who eats cheese pizza
QUERY: SELECT name FROM eats
WHERE name IN (SELECT name FROM person WHERE gender = 'male' AND age > 20) AND
pizza = 'cheese';

```
9        #Question 3
10       #Find the name of males over 20 years old  who eats cheese pizza
11 ●     SELECT name FROM eats
12       WHERE name IN (SELECT name FROM person WHERE gender = 'male' AND age > 20) AND pizza = 'cheese';
13
```

Result Grid | Filter Rows: [ ] | Export: | Wrap Cell Content: IA

name
▶ Ben
Eli
Gus

4.) Find all pizzerias that do not serve pizzas that are $9 or more
QUERY: SELECT DISTINCT pizzeria FROM serves
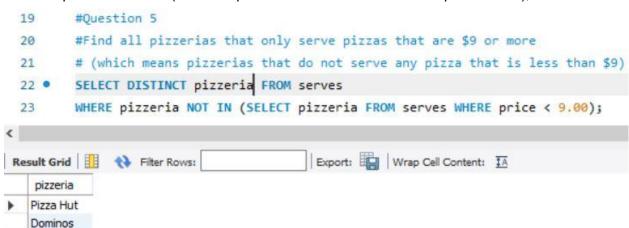WHERE pizzeria NOT IN (SELECT pizzeria FROM serves WHERE price >= 9.00);

```
14       #Question 4
15       #Find all pizzerias that do not serve pizzas that are $9 or more
16 ●     SELECT DISTINCT pizzeria FROM serves
17       WHERE pizzeria NOT IN (SELECT pizzeria FROM serves WHERE price >= 9.00);
18
```

Result Grid | Filter Rows: [ ] | Export: | Wrap Cell Content: IA

pizzeria
▶ New York Pizza
Chicago Pizza

5.) Find all pizzerias that only serve pizzas that are $9 or more (which means pizzerias that do not serve any pizza that is less than $9)
QUERY: SELECT DISTINCT pizzeria FROM serves
WHERE pizzeria NOT IN (SELECT pizzeria FROM serves WHERE price < 9.00);

```
19       #Question 5
20       #Find all pizzerias that only serve pizzas that are $9 or more
21       # (which means pizzerias that do not serve any pizza that is less than $9)
22 ●     SELECT DISTINCT pizzeria FROM serves
23       WHERE pizzeria NOT IN (SELECT pizzeria FROM serves WHERE price < 9.00);
```

Result Grid | Filter Rows: [ ] | Export: | Wrap Cell Content: IA

pizzeria
▶ Pizza Hut
Dominos

6.) Find all pizzas eaten by at least one female over the age of 20 that cost more than $9
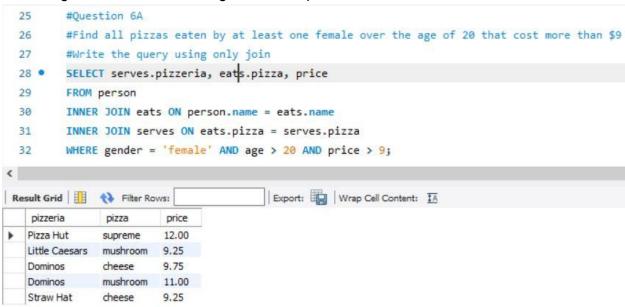
A: Write the query using only join

QUERY: SELECT serves.pizzeria, eats.pizza, price
FROM person
INNER JOIN eats ON person.name = eats.name
INNER JOIN serves ON eats.pizza = serves.pizza
WHERE gender = 'female' AND age > 20 AND price > 9;

```
25      #Question 6A
26      #Find all pizzas eaten by at least one female over the age of 20 that cost more than $9
27      #Write the query using only join
28  •   SELECT serves.pizzeria, eats.pizza, price
29      FROM person
30      INNER JOIN eats ON person.name = eats.name
31      INNER JOIN serves ON eats.pizza = serves.pizza
32      WHERE gender = 'female' AND age > 20 AND price > 9;
```

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

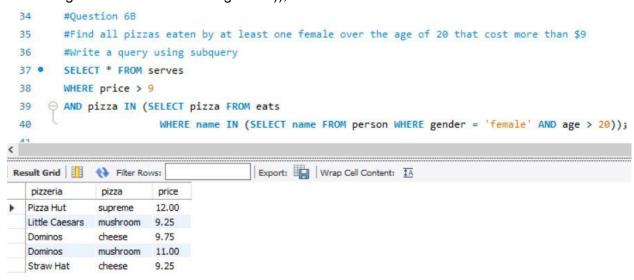| pizzeria	pizza	price
Pizza Hut	supreme	12.00
Little Caesars	mushroom	9.25
Dominos	cheese	9.75
Dominos	mushroom	11.00
Straw Hat	cheese	9.25

B: Write a query using subquery

QUERY: SELECT * FROM serves
WHERE price > 9
AND pizza IN (SELECT pizza FROM eats WHERE name IN (SELECT name FROM person WHERE gender = 'female' AND age > 20));

```
34      #Question 6B
35      #Find all pizzas eaten by at least one female over the age of 20 that cost more than $9
36      #Write a query using subquery
37  •   SELECT * FROM serves
38      WHERE price > 9
39  ⊖   AND pizza IN (SELECT pizza FROM eats
40                    WHERE name IN (SELECT name FROM person WHERE gender = 'female' AND age > 20));
41
```

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

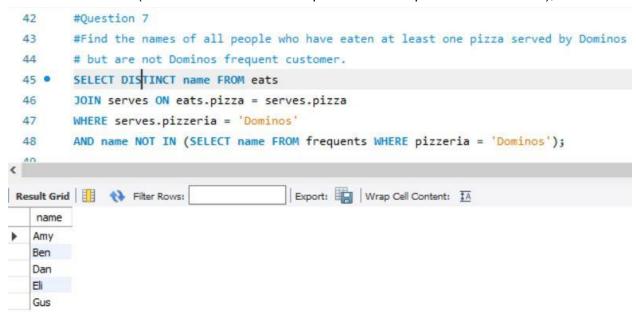| pizzeria	pizza	price
Pizza Hut	supreme	12.00
Little Caesars	mushroom	9.25
Dominos	cheese	9.75
Dominos	mushroom	11.00
Straw Hat	cheese	9.25

7.) Find the names of all people who have eaten at least one pizza served by Dominos but are not Dominos frequent customers.
QUERY: SELECT DISTINCT name FROM eats
JOIN serves ON eats.pizza = serves.pizza
WHERE serves.pizzeria = 'Dominos'
AND name NOT IN (SELECT name FROM frequents WHERE pizzeria = 'Dominos');

```
42      #Question 7
43      #Find the names of all people who have eaten at least one pizza served by Dominos
44      # but are not Dominos frequent customer.
45  •   SELECT DISTINCT name FROM eats
46      JOIN serves ON eats.pizza = serves.pizza
47      WHERE serves.pizzeria = 'Dominos'
48      AND name NOT IN (SELECT name FROM frequents WHERE pizzeria = 'Dominos');
```

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

name
Amy
Ben
Dan
Eli
Gus

8.) Find all pizzas that are eaten only by people younger than 24
QUERY: SELECT DISTINCT eats.pizza, pizzeria FROM eats
JOIN serves ON eats.pizza = serves.pizza
WHERE eats.pizza NOT IN (SELECT DISTINCT pizza FROM eats WHERE name IN (SELECT name FROM person WHERE age > 24));

```
50      #Question 8
51      #Find all pizzas that are eaten only by people younger than 24
52  •   SELECT DISTINCT eats.pizza, pizzeria FROM eats
53      JOIN serves ON eats.pizza = serves.pizza
54      WHERE eats.pizza NOT IN (SELECT DISTINCT pizza FROM eats
55                                WHERE name IN (SELECT name FROM person WHERE age > 24));
56
```

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

pizza	pizzeria
pepperoni	New York Pizza
pepperoni	Straw Hat
pepperoni	Little Caesars
pepperoni	Pizza Hut
mushroom	Dominos
mushroom	Little Caesars
sausage	Straw Hat
sausage	Little Caesars
sausage	Pizza Hut