

CHRISTOFER FABIÁN CHÁVEZ CARAZAS

1. Find all pizzerias frequented by at least one person under the age of 18

```
select pizzeria from Frequents inner join Person on Frequents.name = Person.name
where age < 18;
```

2. Find the names of all females who eat either mushroom or pepperoni pizza (or both).

```
select distinct Person.name from Person inner join Eats on Person.name = Eats.name
where (pizza = 'mushroom' or pizza = 'pepperoni')
and gender = 'female';
```

3. Find the names of all females who eat both mushroom and pepperoni pizza.

```
select Person.name from Person inner join Eats on Person.name = Eats.name
where gender = 'female' and (pizza = 'mushroom' or pizza = 'pepperoni')
group by name
having count(*) = 2;
```

4. Find all pizzerias that serve at least one pizza that Amy eats for less than \$10.00.

```
select Serves.pizzeria from Serves inner join Frequents on Serves.pizzeria = Frequents.pizzeria
where price < 10 and name = 'Amy';
```

5. Find all pizzerias that are frequented by only females or only males.

```
select distinct pizzeria from Frequents inner join Person on Frequents.name = Person.name
where gender = 'female' and pizzeria not in (select distinct pizzeria from Frequents inner join Person on Frequents.name = Person.name
where gender = 'male')
union
select distinct pizzeria from Frequents inner join Person on Frequents.name = Person.name
where gender = 'male' and pizzeria not in (select distinct pizzeria from Frequents inner join Person on Frequents.name = Person.name
where gender = 'female');
```

6. For each person, find all pizzas the person eats that are not served by any pizzeria the person frequents. Return all such person (name) / pizza pairs.

```
select name, pizza AS T from Eats
where (name, pizza) not in (select name, Serves.pizza from Serves inner join Frequents on Serves.pizzeria = Frequents.pizzeria);
```

7. Find the names of all people who frequent only pizzerias serving at least one pizza they eat.

```
select name from Person where name not in (select name from Frequents where (name, pizzeria) not in (select distinct name, pizzeria from Eats inner join Serves on Eats.pizza = Serves.pizza));
```

8. Find the names of all people who frequent every pizzeria serving at least one pizza they eat.

```
select name from Person where name not in (select distinct name from Eats inner join Serves on Eats.pizza = Serves.pizza where (name, pizzeria) not in (select name, pizzeria from Frequents));
```

9. Find the pizzeria serving the cheapest pepperoni pizza. In the case of ties, return all of the cheapest-pepperoni pizzerias.

```
select pizzeria from Serves where pizza = 'pepperoni' and price = (select min(price) from Serves where pizza = 'pepperoni');
```