We've created a small sample database to use for this assignment. It contains four relations:

Person(name, age, gender) // name is a key

Frequents(name, pizzeria) // [name,pizzeria] is a key

Eats(name, pizza) // [name,pizza] is a key

Serves(pizzeria, pizza, price) // [pizzeria,pizza] is a key

Q1

(2 points possible)

Find all pizzas eaten by at least one female over the age of 20.

Q2

(2 points possible)

Find the names of all females who eat at least one pizza served by Straw Hat. (Note: The pizza need not be eaten at Straw Hat.)

Q3

(2 points possible)

Find all pizzerias that serve at least one pizza for less than $10 that either Amy or Fay (or both) eat.

Q4

 (2 points possible)

Find all pizzerias that serve at least one pizza for less than $10 that both Amy and Fay eat.

Q5

(2 points possible)

Find the names of all people who eat at least one pizza served by Dominos but who do not frequent Dominos.

Person

|  |  |  |
| --- | --- | --- |
| **name** | **age** | **gender** |
| Amy | 16 | female |
| Ben | 21 | male |
| Cal | 33 | male |
| Dan | 13 | male |
| Eli | 45 | male |
| Fay | 21 | female |
| Gus | 24 | male |
| Hil | 30 | female |
| Ian | 18 | male |

Frequents

|  |  |
| --- | --- |
| **name** | **pizzeria** |
| Amy | Pizza Hut |
| Ben | Chicago Pizza |
| Ben | Pizza Hut |
| Cal | New York Pizza |
| Cal | Straw Hat |
| Dan | New York Pizza |
| Dan | Straw Hat |
| Eli | Chicago Pizza |
| Eli | Straw Hat |
| Fay | Dominos |
| Fay | Little Caesars |
| Gus | Chicago Pizza |
| Gus | Pizza Hut |
| Hil | Dominos |
| Hil | Pizza Hut |
| Hil | Straw Hat |
| Ian | Dominos |
| Ian | New York Pizza |
| Ian | Straw Hat |

Eats

|  |  |
| --- | --- |
| **name** | **pizza** |
| Amy | mushroom |
| Amy | pepperoni |
| Ben | cheese |
| Ben | pepperoni |
| Cal | supreme |
| Dan | cheese |
| Dan | mushroom |
| Dan | pepperoni |
| Dan | sausage |
| Dan | supreme |
| Eli | cheese |
| Eli | supreme |
| Fay | mushroom |
| Gus | cheese |
| Gus | mushroom |
| Gus | supreme |
| Hil | cheese |
| Hil | supreme |
| Ian | pepperoni |
| Ian | supreme |

Serves

|  |  |  |
| --- | --- | --- |
| **pizzeria** | **pizza** | **price** |
| Chicago Pizza | cheese | 7.75 |
| Chicago Pizza | supreme | 8.5 |
| Dominos | cheese | 9.75 |
| Dominos | mushroom | 11 |
| Little Caesars | cheese | 7 |
| Little Caesars | mushroom | 9.25 |
| Little Caesars | pepperoni | 9.75 |
| Little Caesars | sausage | 9.5 |
| New York Pizza | cheese | 7 |
| New York Pizza | pepperoni | 8 |
| New York Pizza | supreme | 8.5 |
| Pizza Hut | cheese | 9 |
| Pizza Hut | pepperoni | 12 |
| Pizza Hut | sausage | 12 |
| Pizza Hut | supreme | 12 |
| Straw Hat | cheese | 9.25 |
| Straw Hat | pepperoni | 8 |
| Straw Hat | sausage | 9.75 |