**Session 1 - feedback**

**3. Identify the attributes of each entity and point out which one to choose as key.**

Product = (Id, Name, Category, Price, Format)

Supplier = (Id, Name, Location)

Distributor = (Id, Name, Location, Quantity)

Banner = (Id, Name, Location)



**4. Sketch an ER diagram indicating all your entities and the presence of relationships, naming each relationship.**

Supplier

Product

N

M

Produces

M

M

Pickups

Distributor

M

M

Banner

1

Deliveries

**7. Identify the data type and any applicable restrictions to each attribute, including whether it may take on null values.**

|  |  |
| --- | --- |
| Product | |
| Product\_id | Integer |
| Name | VARCHAR(20) |
| Category | VARCHAR(20) |
| Format | VARCHAR(20) |
| Quantity | Integer |
|  |  |

|  |  |
| --- | --- |
| Supplier | |
| Supplier\_id | Integer |
| Name | VARCHAR(20) |
| Location | VARCHAR(20) |
| Product\_id | FK |
|  |  |

|  |  |
| --- | --- |
| Distributor | |
| Distributor\_id | Integer |
| Name | VARCHAR(20) |
| Location | VARCHAR(20) |
| Quantity | Integer |
| Product\_id | FK |
| Supplier\_id | **FK** |
|  |  |

|  |  |
| --- | --- |
| Banner | |
| Banner\_id | Integer |
| Name | VARCHAR(20) |
| Location | VARCHAR(20) |
| DistributorId | FK |

**8. In SQLite notation, tested either in Replit or Colab, create the corresponding tables.**

Supply

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Supplier | Distributor | Banner |
| cheese | Saputo | GFS | PizzaHut |
| chicken | Exceldor | D&B | Scores |
| Frozen fruits | Alasko | MID | TuttiFrutti |
| Fish | Highliner | JD | Sushi Shop |
| cups | Polar | D&B | Cafe Depot |
|  |  |  |  |
|  |  |  |  |

CREATE TABLE Product(

product\_id INTEGER PRIMARY KEY AUTOINCREMENT,

name VARCHAR(20),

category VARCHAR(20),

format VARCHAR(20),

quantity INT

);

CREATE TABLE Supplier (

supplier\_id INTEGER PRIMARY KEY AUTOINCREMENT,

name VARCHAR(20),

location VARCHAR(20)

);

CREATE TABLE Distributor (

distributor\_id INTEGER PRIMARY KEY AUTOINCREMENT,

name VARCHAR(20),

location VARCHAR(20),

quantity INT

);

CREATE TABLE Banner (

banner\_id INTEGER PRIMARY KEY AUTOINCREMENT,

name VARCHAR(20),

location VARCHAR(20)

);

INSERT INTO Product (name, category, format, quantity) VALUES ('Cheese', 'dairy', 'box', 2);

INSERT INTO Product (name, category, format, quantity) VALUES ('Chicken wings', 'meats', 'box', 1000);

INSERT INTO Product (name, category, format, quantity) VALUES ('Chicken wings', 'meats', 'box', 5000);

INSERT INTO Product (name, category, format, quantity) VALUES ('Milk', 'dairy', 'unit', 15);

INSERT INTO Supplier (name, location) VALUES ('Saputo', 'Longueuil');

INSERT INTO Supplier (name, location) VALUES ('Exeldor', 'Bucherville');

INSERT INTO Supplier (name, location) VALUES ('Agropur', ' Saint-Hyacinthe');

INSERT INTO Distributor ( name, location, quantity) VALUES ('D&B', 'Montreal', 3);

INSERT INTO Distributor (name, location, quantity) VALUES ('GFS', 'Montreal', 3);

INSERT INTO Distributor (name, location, quantity) VALUES ('D&B', 'Montreal', 15);

INSERT INTO Banner (name, location) VALUES ('Pizza Hut', 'Montreal');

INSERT INTO Banner (name, location) VALUES ('La CAGE', 'Desjardins');

INSERT INTO Banner (name, location) VALUES ('La CAGE', 'Laval');

INSERT INTO Banner (name, location) VALUES ('café Depot', 'Mc Gill');

SELECT \* FROM Product;

SELECT \* FROM Supplier;

SELECT \* FROM Distributor;

SELECT \* FROM Banner;

SELECT \* FROM Product

WHERE Name='Cheese';

SELECT Name FROM Product;

SELECT \* FROM Distributor

WHERE Name='D&B';

SELECT \* FROM Banner

WHERE name='Saputo' AND location='Laval';

Sources:

<https://www.gliffy.com/blog/how-to-draw-an-entity-relationship-diagram>

https://opentextbc.ca/dbdesign01/chapter/chapter-8-entity-relationship-model/