CASE STUDY

PET STORE DATABASE

Develop a pet store database that provides web-based interface to a pet shop owner to manages his petshop activities.This database provides an option for storing and managing basic information about pets and pet products available in the shop.This also contains the storing and managing the basic information about the customer and track the information about sold pets and products to a customer.In this database one can add animals and birds,can also delete them,also update .
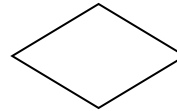
Symbols used in ER Diagram:

1.Rectangle divided into two parts:

It represents entity sets.
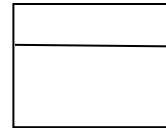
2. Diamonds:

Represents Relationship sets.

3.Undivided Rectangles:

Represents Attributes of relationship set attributes

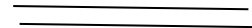that are a part of a primary key are underlined.

4.Lines:

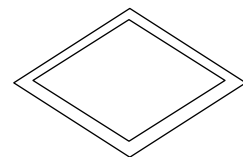Link Entity set to Relationship sets.

5.Double Lines:

Indicate total participation of a entity in a relationship set.

6.Double Diamonds:

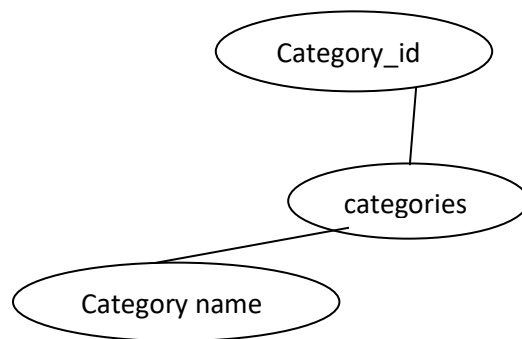Represents identifying Relationship sets link to weak entity set.

❖ **IDENTIFYING ENTITIES:**
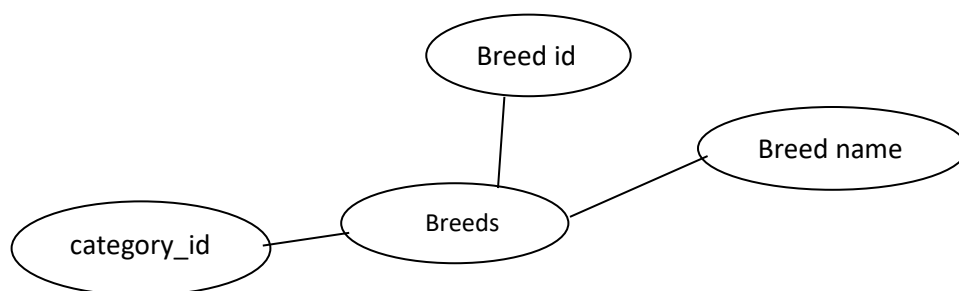   1. Categories
   2. Breeds
   3. Pets

Categories:

categories (category_id INT PRIMARY KEY, category_name VARCHAR(50) NOT NULL);

Breeds:

mysql>CREATE TABLE breeds (breed_id INT PRIMARY KEY, breed_name VARCHAR(50) NOT NULL,category_id INT,FOREIGN KEY (category_id) REFERENCES categories(category_id));

Pets:

pets (pet_id INT PRIMARY KEY , pet_name VARCHAR(50) NOT NULL, breed_id
 INT, age INT, price DECIMAL(8, 2), FOREIGN KEY (breed_id) REFERENCES breeds(breed_id));
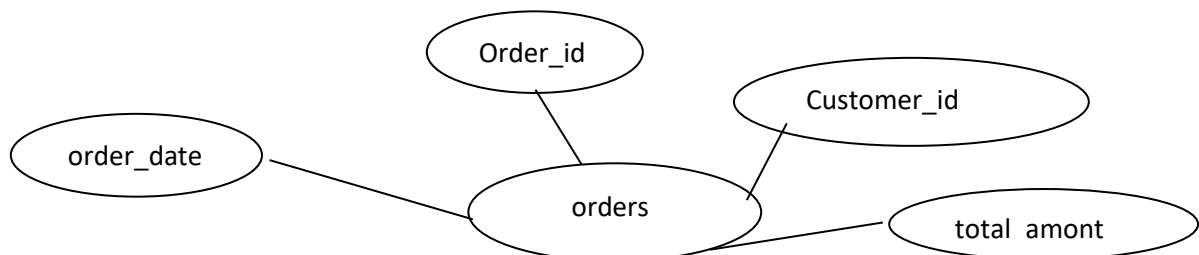
Pet_id

Pet_name

age

pets

breed_id

price
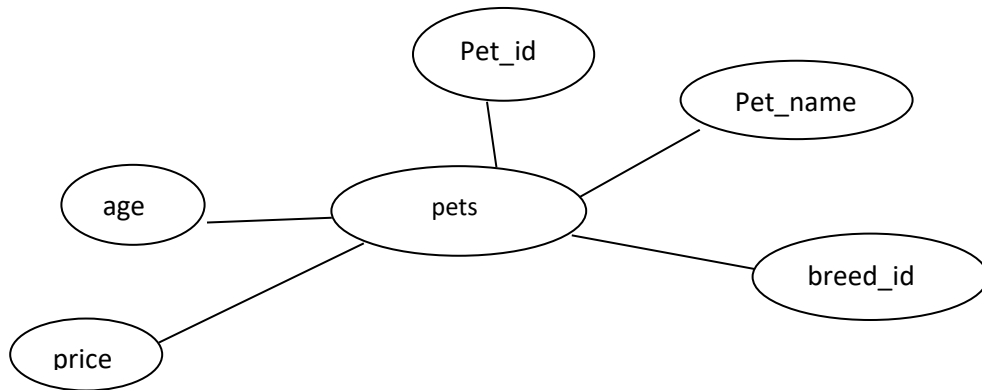
Customers:

customers (customer_id INT PRIMARY KEY, customer_name VARCHAR(100) NOT NULL, address
VARCHAR(255) NOT NULL, email VARCHAR(50) UNIQUE NOT NULL);
mysql>desc customers;

Customer_id

Customer name

email

customers

address
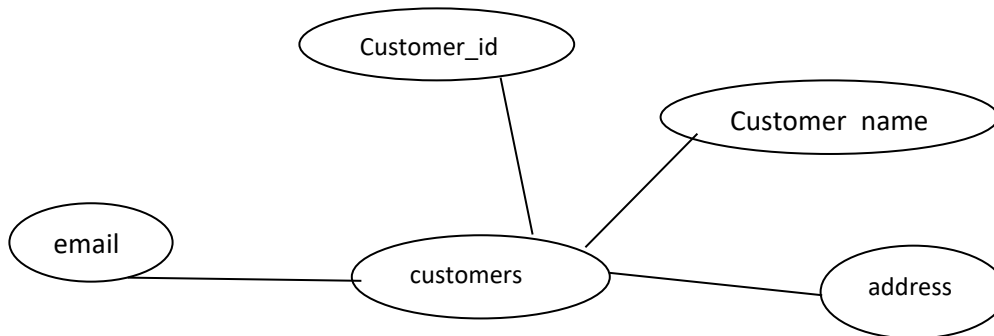
Orders:

 orders (order_id INT PRIMARY KEY, customer_id INT, order_date DATE NOT NULL, total_amount
DECIMAL(10, 2) NOT NULL, FOREIGN KEY (customer_id) REFERENCES customers(customer_id));

Order_id

Customer_id

order_date

orders

total amont

Order_items:

order_items (item_id INT PRIMARY KEY, order_id INT, pet_id INT, quantity INT NOT NULL, subtotal DECIMAL(10, 2) NOT NULL, FOREIGN KEY (order_id) REFERENCES orders(order_id), FOREIGN KEY (pet_id) REFERENCES pets(pet_id));

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        quantity              Item_id


                    Order_items

    Sub_total                         Order_id

              Pet_id
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