**What data would be collected by my database? Who owns the database? Who manages the database? Who can access the data in the database? (1 paragraph)**

The basic kinds of data that would be collected and stored in the database can vary from user information to product information. On the side of user information, we would ideally like to store basic user registration info including a username, email address, password, first name, last name, and maybe some other basic identifiers if we deem them necessary. We will also assign a user a unique ID once they register. This user information will be used to identify the different users who wish to purchase or browse products. On the side of inventory, we would like to store various items like the item code (not always unique), item name, item description, item price, item cost, quantity on hand, and the image/image path. For some other items we might also want to store information like the items color, item size (L, M, S, etc.), maybe even its dimensions. Strictly speaking the database would be owned by the company, All Sports, but more specifically no one person within the company would own the database. There would not be one person within the company who has full access to the database at once because that could lead to unforeseen consequences. There would likely be an account called sa (System Administrator) or root who has full access to all aspects of the database, but this account should be locked down and not used by just anyone who wants to make changes. Different departments within the company would need different access levels. Those who manage inventory would need access to all aspects of adding and updating items and their corresponding information, but should probably not have access to user information. The job of accessing and updating account information might be left to a support department or even delegated to only allowing the user to update their information on their own.

**17 Questions (Human/SQL):**

* How many total registered users are there?
  + SELECT COUNT(\*) FROM USERS
* Who has user ID 15?
  + SELECT FIRST\_NAME, LAST\_NAME FROM USERS WHERE ID=15
* How many registered users have names that begin with J?
  + SELECT COUNT(\*) FROM USERS WHERE F\_NAME LIKE ‘J%’
* How many users have registered today?
  + SELECT COUNT(\*) FROM USERS WHERE REG\_DATE = CURRENT\_DATE()
* How many users have an email address associated with their account?
  + SELECT \* FROM USERS WHERE EMAIL\_ADDRESS IS NOT NULL;
* Are there any users named Emily?
  + SELECT COUNT(\*) FROM USERS WHERE F\_NAME = ‘Emily’
* How many registered people have the last name of Smith and a first name of Jane?
  + SELECT \* FROM USERS WHERE FIRST\_NAME = ‘Jane’ AND LAST\_NAME = ‘Smith’
* How many orders have been placed in the past year?
  + SELECT \* FROM ORDERS WHERE ORDER\_DATE > ‘2020-09-11’
* What is the $ total of all orders placed in the past year?
  + SELECT SUM(PRICE) FROM ORDER\_DETAILS WHERE ORDER\_DATE > '2020-09-11'
* How many total products do we have in our database?
  + SELECT \* FROM PRODUCTS
* How many products have names with the letter A in them?
  + SELECT \* FROM PRODUCTS WHERE PROD\_NAME LIKE ‘%A%’
* What products have 0 stock right now?
  + SELECT \* FROM PRODUCTS WHERE PROD\_QTY = 0
* What products have low stock (less than 10 items in stock) right now?
  + SELECT \* FROM PRODUCTS WHERE PROD\_QTY < 11;
* Are there any products missing pictures?
  + SELECT \* FROM PRODUCTS WHERE PROD\_IMG IS NULL OR PROD\_IMG = ‘’;
* Are there any products missing pricing information?
  + SELECT PROD\_NAME FROM PRODUCTS WHERE PROD\_PRICE = ‘’ OR PROD\_PRICE = ‘’;
* How many inactive items are there?
  + SELECT COUNT(\*) FROM PRODUCTS WHERE PROD\_STATUS = 0
* What is the productid of the item with the name “Teddy Bear”?
  + SELECT ID FROM PRODUCTS WHERE PROD\_NAME = ‘Teddy Bear’
* What is the description of productid #22?
  + SELECT PROD\_DESC FROM PRODUCTS WHERE PROD\_ID = 22

**Partner’s Database:**

**Business’s Need for a database:**

My partner is creating a database solution for a pet grooming service. The company in question, The Pet Place, offers a variety of different services including pet grooming, pet daycare, as well as pet training. In order to keep track of all these services the business needs a way to keep track of the all the pets, their information, their behavior, as well as their owner’s information. This business will also be keeping track of all their employees and wants the ability to assign a specific employee to a customer’s pet. More specifically in the grooming service, one employee is assigned to each pet while in the daycare and training department, pets are assigned to groups and these groups are then assigned to an employee. All this information would better allow the business to keep track of upcoming appointments for each service as well as help keep employees informed and organized.

**3 Business Questions (Human/SQL):**

* How many pets do we currently service that have a blond coat and are considered Large?
  + SELECT \* FROM PETS WHERE PET\_COAT = ‘Blond’ AND PET\_SIZE = ‘L’
* How many visits has the dog named Callie visited the groomer? (Assuming no FK)
  + SELECT COUNT(\*) FROM GROOMER\_VISITS WHERE PET = ‘Callie’
* What department does an employee with the name John Smith work in?
  + SELECT DEPARTMENT FROM EMPLOYEE WHERE EMP\_FNAME = ‘John’ AND EMP\_LNAME = ‘Smith’