The Pet Lovers Store's new database will aim to organize the existing and store new data that is on file. To do this I will create a new database with MySQL that will sort the records automatically. This will make the process of keeping records up to date much easier. It will also help the management keep track of the data as it flows throughout the business. Within MySQL I will create nine separate tables that will store the data of the customers, pets, employees, suppliers, and products. There will also be tables that keep track of the relationships between the different entities. I will put the final results in Windows Form using C#. This will give the staff a UI to interact with instead of MySQL.

First I will be designing six tables that will be absolutely crucial to the project. Once again they will be the customers, pets, employees, suppliers, and product. I will start off designing these tables because all other data will be connected to one or more of these tables. Next I will design the Entity Relationship Diagrams this will establish relationships with other tables to determine to determine various queries. This will also help me determine the amount of bridge tables that are needed.

The first relationship that will be establish is the one between customers and pets. Since it will be optional for A owner to buy many pets but a pet can have one owner. There will probably be a bridge table to help establish the relationship between them. There will also be a relationship between products and suppliers. All products Ill have a supplier who will provide a price. That Price will help the store design their own pricing model. There will be a relationship between employees and customers. This will determine which employee sold pets to the customers. Customers and products will have a table and relationship to determine what products to buy. There will be others but those are the ones that will require bridge tables.

The relationships will help determine the query's needed for the database. The queries will organize the data that the staff have input into MySQL. The Queries will group the data into reports that the owner can use to make in depth decisions about the store. The queries will group customers with the pets that they buy, Employee information and information about the products in the store. All will be queried and presented in a report for the owner.

The last piece to the project will be a UI that the staff can interact with. This will be made with Windows forms and C#. The UI will serve as a easy way for the staff to input data into the database. It will then query the data and present a report for the owner. The staff will not have to deal with the MySQL server and just interact with this. What's truly flexible about the MySQL server if the staff want to add more queries to the database they can still have access to the SQL server.