### DSBA-6160: HCIP-6160: ITIS-5180

### 



DBMS : SUMMER I

TEAM NAME: PAWSitively PURRfect

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5. **SCOPE :**
   * Five PAWSitively PURRfect technicians will design, develop, and implement a relational database prototype using MySQL to manage pet services to clients in North Carolina. The services will include: boarding, visitation, walking, feeding, day care, bathing, shopping, and medication administration with a 10% discount for teachers. Information will be stored in independent relational tables titled: Pets, Services, Customers, Orders, Technicians, College and Students.The production of the database will be developed using four dated deliverables: 5/25/18, 6/11/18, 6/18/18 and 6/25/18, using a collaborative approach. The final date of 6/25/18 is the project completion date. The database will be constructed for veterinarian, Dr. William Patel, and will use existing client data for the prototype. New clients will be added after the database is completed and implemented. No cost is associated with using the free MySQL community server.
6. **BUSINESS RULES :**

**2.1 Customer Business Rules**

* + A single customer can have many pets
  + A customer can be zero to one teacher
  + A customer can be zero to one student
  + Customers can be technicians and technicians can be customers
  + A customer can place zero to many orders
  + A customer can be specialized into a teacher, a college student and/or a technician

**2.2 Pet Business Rules**

* + Each pet belongs to a single customer ( As Co-Parenting is not allowed )
  + A pet can have zero to many orders
  + A pet can belong to zero to one pet type

**2.3 Technician Business Rules**

* + Technician can be a customer and customer can be a technician
  + A technician can do one to many services

**2.4 Other Business Rules**

* + A service can have many technicians
  + There is a many to many relationship between services and orders

**2.5 Teacher Business Rules**

* + Teachers are the only customers who are eligible to get a discount

1. **Schema**

**CUSTOMER**

(id, first\_name, address, phone, email, last\_name, city, county, state, zip, idTeacher, idCollege\_Students)

**TEACHER**

(idTeacher, discount, position, school\_name, coach)

**COLLEGE STUDENTS**

(idCollege\_Students, school\_name, major, graduation\_date)

**ORDERS**

(Order\_ID, start\_date, start\_time, completion\_date, completion\_time, customer\_id, pets\_id)

**PETS**

(pet\_id, pet\_type\_id, pet\_name, pet\_size, pet\_special\_needs, customer\_id)

**PET TYPE**

(pet\_type\_id)

**TECHNICIANS**

(Tech\_ID, Certification, Car, Preference SET, Hire Date, Customer\_id)

**SERVICE**

(Service\_id, Type SET, Cost, Comment)

**ORDER\_HAS\_SERVICES**

(Order\_ID, Service\_ID)

**TECHNICIAN\_HAS\_SERVICES**

(Tech\_ID, Service\_ID)

1. **EERD :**

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