Name: _____

Student #: _____

Assignment #3 – Dog Kennel

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You have been approached by a dog breeder to design a database to track information on dogs and clients. The company has several male and female animals it uses for breeding puppies for sale to different clients. As the puppies are in high demand, each client may only purchase one puppy each year a new litter is produced.

The information they keep on their dogs (parents and puppies) includes the name, breed, father and mother (if raised by breeder), gender (m/f/neuter), shots (yes/no), date of birth, and the status of the dog (in the kennel, ready for sale, has been sold, or has died). The information they keep on clients includes their name, complete address, phone number, a record of what dogs the client has purchased through this breeder, when the animal was purchased and the price the puppy was sold for.

Based on this information, develop a new MariaDB database design that will be used by the dog breeder. Your completed design **must** consist of the following:

- An Entity-Relationship Diagram
  - Using Visual Paradigm
  - Including all entities, keys, relationships and data types.
  - Use MariaDB as the target database.
- A complete database creation script
  - Include all SQL needed to drop and create the database
  - Include all SQL queries required to delete the tables
  - Include all SQL queries required to create the tables.
  - Include all SQL queries required to delete the foreign key constraints
  - Include all SQL queries required to add the foreign key constraints.
  - All primary and foreign key constraints should have appropriate names.
  - You should be able to run the query multiple times without errors (warnings are ok)

Submission

Upload all of the following documents to the appropriate dropbox in Brightspace:

1) A PDF of the completed Entity-Relationship Diagram (ERD)
2) The Visual Paradigm VPP file of the ERD
3) A PDF of the completed SQL creation script
4) A text file, containing all the SQL script, named “dog_breeder.sql”

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Criteria	Unsatisfactory	Acceptable	Good	Exceptional	Mark
	0	1	2	3	
Entities	- no valid entities were shown	- some of the entities were valid	- most of the entities were valid	- all the entities were chosen well and given appropriate names	
Relationships	- crow's foot relationships do not exist	- some of the crow's foot relationships are valid	- most of the relationships are correct - only a few mistakes exist	- all relationships are correct and in crow's foot notation	
Fields	- no fields exist in the entities	- some fields exist, but many are missing, misnamed or incorrect for the entity	- only a few fields are missing, misnamed or are incorrect for the entity	- all fields are present and are correctly placed in their corresponding entity	
Data Types	- no data types are defined - the same data type was used for all fields	- some data types are correct for the fields, but many are incorrectly sized or using the wrong type	- most fields are using the correct types and sized appropriately - some required fields are mistakenly nullable	- all fields have well chosen data types and are correctly sized - all required fields are set to not null	
CREATE TABLE Fields	- too many errors exist in syntax, table creation or fields	- some tables and fields are correctly created - a few errors exist	- most tables and fields are created correctly with correct datatypes - an error exists	- all tables and fields are created correctly with correct datatypes - execute without error	
CREATE TABLE Constraints	- too many errors exist in syntax or in the creation of the primary and foreign key constraints	- some primary and foreign key constraints are correctly created - a few errors exist	- most primary key and foreign key constraints are correctly created - an error exists	- all primary and foreign key constraints are correctly created for the target database	
DROP TABLE Queries	- queries don't exist or can't be run	- some of the queries are correct	- most of the queries are correct	- all queries are correct	
ALTER TABLE (ADD) Queries	- queries don't exist or can't be run	- queries exist, but do not create the constraint correctly	- queries and constraint correct, but constraint named incorrectly	- queries and constraints correct	
ALTER TABLE (DROP) Queries	- queries don't exist or can't be run	- some of the queries are correct	- most of the queries are correct	- all queries are correct	
Layout and Naming Conventions	- SQL statements not capitalized - SQL statements not indented - Key constraints poorly named	- most SQL statements are capitalized and indented correctly - some key constraints are well-named - some changes could be made	- SQL statements are capitalized and indented - most key constraints are well-named - a couple of changes could be made	- SQL statements are capitalized and indented correctly - all primary and foreign key constraints are well-named	