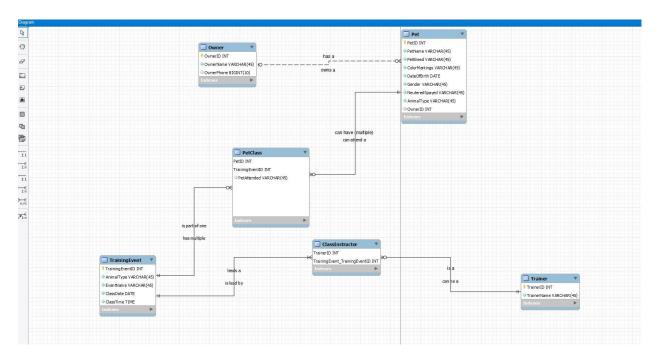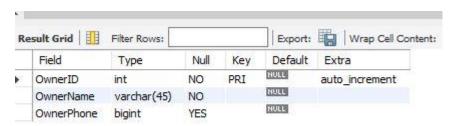# Homework 4

Data Model:

Output of a DESCRIBE <table>:
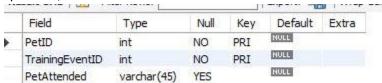
-- all describe commands for each table

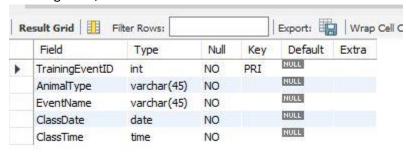- describe Owner;

- describe pet;

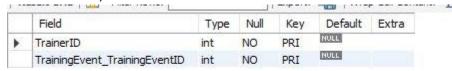John Ortiz

- describe petclass;

Field	Type	Null	Key	Default	Extra
PetID	int	NO	PRI	NULL	
TrainingEventID	int	NO	PRI	NULL	
PetAttended	varchar(45)	YES		NULL	

- describe trainingevent;

Result Grid | Filter Rows: | Export: | Wrap Cell C

Field	Type	Null	Key	Default	Extra
TrainingEventID	int	NO	PRI	NULL	
AnimalType	varchar(45)	NO		NULL	
EventName	varchar(45)	NO		NULL	
ClassDate	date	NO		NULL	
ClassTime	time	NO		NULL	

- describe trainer;

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

Field	Type	Null	Key	Default	Extra
TrainerID	int	NO	PRI	NULL	auto_increment
TrainerName	varchar(45)	NO		NULL	

- describe classinstructor;

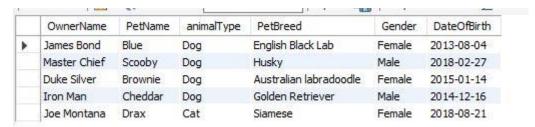| Field	Type	Null	Key	Default	Extra
TrainerID	int	NO	PRI	NULL	
TrainingEvent_TrainingEventID	int	NO	PRI	NULL	

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SQL Queries:

Two Specific Queries (asked on slide 9)

-- A list of Owners and Pets showing the owner name, pet name, animal**, breed, gender, date of birth

select o.OwnerName, p.PetName,p.animalType,p.PetBreed,p.Gender,p.DateOfBirth

      FROM pet p, owner o

  where o.ownerID = p.OwnerID;

OwnerName	PetName	animalType	PetBreed	Gender	DateOfBirth
James Bond	Blue	Dog	English Black Lab	Female	2013-08-04
Master Chief	Scooby	Dog	Husky	Male	2018-02-27
Duke Silver	Brownie	Dog	Australian labradoodle	Female	2015-01-14
Iron Man	Cheddar	Dog	Golden Retriever	Male	2014-12-16
Joe Montana	Drax	Cat	Siamese	Female	2018-08-21

-- A list of Upcoming Training Events showing the date, time, trainer, event type, owner, pet (with one trainer listed -- concise list)

select t.TrainingEventID, t.EventName,t.AnimalType,t.ClassDate,t.ClassTime, tr.TrainerName, p.PetName, o.OwnerName

      FROM trainingevent t, classinstructor ci,trainer tr,petclass pc, pet p,owner o

  where t.TrainingEventID = ci.TrainingEvent_TrainingEventID

      AND tr.TrainerID = ci.TrainerId

    AND pc.TrainingEventID = t.TrainingEventID

    AND p.PetID = pc.PetID

    AND o.OwnerID = p.OwnerID

     Group By t.TrainingEventID,pc.PetID;

TrainingEventID	EventName	AnimalType	ClassDate	ClassTime	TrainerName	PetName	OwnerName
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Blue	James Bond
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Scooby	Master Chief
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Brownie	Duke Silver
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Cheddar	Iron Man
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Shey	Blue	James Bond
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Shey	Cheddar	Iron Man
3	Off-Leash Operation	Dog	2020-10-22	09:00:00	Marie	Scooby	Master Chief
3	Off-Leash Operation	Dog	2020-10-22	09:00:00	Marie	Brownie	Duke Silver
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Chuck	Blue	James Bond
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Chuck	Brownie	Duke Silver
5	Off-Leash Operation	Dog	2020-10-28	09:00:00	Marie	Scooby	Master Chief
5	Off-Leash Operation	Dog	2020-10-28	09:00:00	Marie	Brownie	Duke Silver
6	Walk-Train-Play	Dog	2020-10-30	02:00:00	Shey	Blue	James Bond
6	Walk-Train-Play	Dog	2020-10-30	02:00:00	Shey	Cheddar	Iron Man

-- A list of Upcoming Training Events showing the date, time, trainer, event type, owner, pet (with each trainer listed -- so repeat of events)

select t.TrainingEventID, t.EventName,t.AnimalType,t.ClassDate,t.ClassTime, tr.TrainerName, p.PetName, o.OwnerName

FROM trainingevent t, classinstructor ci,trainer tr,petclass pc, pet p,owner o

where t.TrainingEventID = ci.TrainingEvent_TrainingEventID

AND tr.TrainerID = ci.TrainerId

AND pc.TrainingEventID = t.TrainingEventID

AND p.PetID = pc.PetID

AND o.OwnerID = p.OwnerID;

TrainingEventID	EventName	AnimalType	ClassDate	ClassTime	TrainerName	PetName	OwnerName
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Blue	James Bond
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Scooby	Master Chief
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Brownie	Duke Silver
1	Basic Skills	Dog	2020-10-21	12:00:00	Shey	Cheddar	Iron Man
1	Basic Skills	Dog	2020-10-21	12:00:00	Marie	Blue	James Bond
1	Basic Skills	Dog	2020-10-21	12:00:00	Marie	Scooby	Master Chief
1	Basic Skills	Dog	2020-10-21	12:00:00	Marie	Brownie	Duke Silver
1	Basic Skills	Dog	2020-10-21	12:00:00	Marie	Cheddar	Iron Man
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Shey	Blue	James Bond
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Shey	Cheddar	Iron Man
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Chuck	Blue	James Bond
2	Walk-Train-Play	Dog	2020-10-21	02:00:00	Chuck	Cheddar	Iron Man
3	Off-Leash Ope...	Dog	2020-10-22	09:00:00	Marie	Scooby	Master Chief
3	Off-Leash Ope...	Dog	2020-10-22	09:00:00	Marie	Brownie	Duke Silver
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Chuck	Blue	James Bond
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Chuck	Brownie	Duke Silver
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Carly	Blue	James Bond
4	Walk-Train-Play	Dog	2020-10-23	12:00:00	Carly	Brownie	Duke Silver
5	Off-Leash Ope...	Dog	2020-10-28	09:00:00	Marie	Scooby	Master Chief
5	Off-Leash Ope...	Dog	2020-10-28	09:00:00	Marie	Brownie	Duke Silver
6	Walk-Train-Play	Dog	2020-10-30	02:00:00	Shey	Blue	James Bond
6	Walk-Train-Play	Dog	2020-10-30	02:00:00	Shey	Cheddar	Iron Man

Testing "Considerations" (with queries)

-- A trainer's schedule for the week

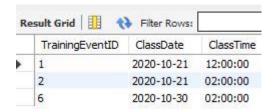**-- Goal bring up Shey's schedule for the week**

select t.TrainingEventID,t.ClassDate,t.ClassTime

FROM trainingevent t, classinstructor ci,trainer tr

where tr.TrainerName = "Shey"

AND t.TrainingEventID = ci.TrainingEvent_TrainingEventID
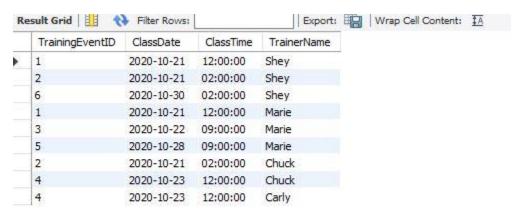
AND tr.TrainerID = ci.TrainerId;

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TrainingEventID	ClassDate	ClassTime
1	2020-10-21	12:00:00
2	2020-10-21	02:00:00
6	2020-10-30	02:00:00

-- A list of classes offered with day/time/trainer

select t.TrainingEventID,t.ClassDate,t.ClassTime,tr.TrainerName

   FROM trainingevent t, classinstructor ci,trainer tr

    where t.TrainingEventID = ci.TrainingEvent_TrainingEventID

   AND tr.TrainerID = ci.TrainerId;

TrainingEventID	ClassDate	ClassTime	TrainerName
1	2020-10-21	12:00:00	Shey
2	2020-10-21	02:00:00	Shey
6	2020-10-30	02:00:00	Shey
1	2020-10-21	12:00:00	Marie
3	2020-10-22	09:00:00	Marie
5	2020-10-28	09:00:00	Marie
2	2020-10-21	02:00:00	Chuck
4	2020-10-23	12:00:00	Chuck
4	2020-10-23	12:00:00	Carly

-- A list of pets/owners scheduled for each class

select t.TrainingEventID, t.EventName,t.AnimalType,t.ClassDate,t.ClassTime, p.PetName, o.OwnerName

   FROM trainingevent t,petclass pc, pet p,owner o

  where pc.TrainingEventID = t.TrainingEventID

   AND p.PetID = pc.PetID

   AND o.OwnerID = p.OwnerID;

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-- A report showing recent history of classes and attendance

-- example: find attendence for all events

select t.ClassDate, t.EventName, p.PetName,pc.PetAttended

      FROM trainingevent t,petclass pc, pet p,owner o

  where pc.TrainingEventID = t.TrainingEventID

    AND p.PetID = pc.PetID

    AND o.OwnerID = p.OwnerID

      Order By t.ClassDate,t.EventName;

As the data I generated was for events in the future, all pets attending will not have a value for if they attended yet.