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/* Class: CS 6070 */

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/* Lab #: 3 Part 1 */

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Multiplication: Identify the SQL that answer this question:

/* What are all the possible combinations of pets and owners? */

Select * from PET, OWNER;

Join: Identify the SQL that answers each of the following questions:

/* Who are the pets and who are their owners? */

Select * from PET join OWNER on PET.OwnerID = OWNER.OwnerID;

/* What are the pet names, species, breeds, and owner names? */

Select Name, Species, Breed, OwnerName from PET join OWNER on PET.OwnerID = OWNER.OwnerID;

/* What are the pet ID's and owner ID's? */

Select ID, OWNER.OwnerID from PET join OWNER on PET.OwnerID = OWNER.OwnerID;

Outer Join: Identify the SQL that answers each of the following questions:

/* Who are the pets and their owners, as well as people without pets? */

Select * from PET right outer join OWNER on PET.OwnerID = OWNER.OwnerID;

/* What are the pet ID's and owner ID's of the pets and their owners, as well as people without pets? */

Select ID, OWNER.OwnerID from PET right outer join OWNER on PET.OwnerID = OWNER.OwnerID;

/* What are the pet names, species, breeds, and owner names of the pets and their owners, as well as people without pets? */

Select Name, Species, Breed, OwnerName from PET right outer join OWNER on PET.OwnerID = OWNER.OwnerID;

/* Who are the pets and their owners, as well animals without owners? */

Select * from PET left outer join OWNER on PET.OwnerID = OWNER.OwnerID;

/* What are the pet ID's and owner ID's of the pets and their owners, as well animals without owners? */

```
select ID, OWNER.OwnerID from PET left outer join on PET.OwnerID = OWNER.OwnerID;
```

Union: Identify the SQL that answers each of the following questions:

```
/* Who are the shelter animals and registered pets? */
```

```
(Select * from PET) union (select * from SHELTER_ANIMAL);
```

```
/* What are ID numbers of the registered pets as well as the shelter animals? */
```

```
(Select ID from PET) union (select ID from SHELTER_ANIMAL);
```

Intersection: Identify the SQL that answers each of the following questions:

```
/* What registered pets are from the shelter? */
```

```
(Select * from PET) intersect (select * from SHELTER_ANIMAL);
```

```
/* What are the ID numbers of the registered pets that are from the shelter? */
```

```
(select ID from PET) intersect (select ID from SHELTER_ANIMAL);
```

Difference Identify the SQL that answers each of the following questions:

```
/* What shelter animals are not registered pets? */
```

```
(Select * from SHELTER_ANIMAL) except (select * from PET);
```

```
/* What are the ID numbers of the registered pets not from the shelter? */
```

```
(select ID from PET) except (select ID from SHELTER_ANIMAL);
```