**Exercise 2 Solutions: Aggregate Functions**

**Query A1:** Enter a function that calculates the total cost of all animal rescues in the PETRESCUE table.

select SUM(COST) from PETRESCUE;

**Query A2:** Enter a function that displays the total cost of all animal rescues in the PETRESCUE table in a column called SUM\_OF\_COST.

select SUM(COST) AS SUM\_OF\_COST from PETRESCUE;

**Query A3:** Enter a function that displays the maximum quantity of animals rescued.

select MAX(QUANTITY) from PETRESCUE;

**Query A4:** Enter a function that displays the average cost of animals rescued.

select AVG(COST) from PETRESCUE;

**Query A5:** Enter a function that displays the average cost of rescuing a dog.  
Hint - Bear in my the cost of rescuing one dog on day, is different from another day. So you will have to use and average of averages.

select AVG(COST/QUANTITY) from PETRESCUE where ANIMAL = 'Dog';

# Exercise 3 Solutions: Scalar and String Functions

**Query B1:** Enter a function that displays the rounded cost of each rescue.

select ROUND(COST) from PETRESCUE;

**Query B2:** Enter a function that displays the length of each animal name.

select LENGTH(ANIMAL) from PETRESCUE;

**Query B3:** Enter a function that displays the animal name in each rescue in uppercase.

select UCASE(ANIMAL) from PETRESCUE;

**Query B4:** Enter a function that displays the animal name in each rescue in uppercase without duplications.

select DISTINCT(UCASE(ANIMAL)) from PETRESCUE;

**Query B5:** Enter a query that displays all the columns from the PETRESCUE table, where the animal(s) rescued are cats. Use **cat** in lower case in the query.

select \* from PETRESCUE where LCASE(ANIMAL) = 'cat';

# Exercise 4 Solutions: Date and Time Functions

**Query C1:** Enter a function that displays the day of the month when cats have been rescued.

select DAY(RESCUEDATE) from PETRESCUE where ANIMAL = 'Cat';

**Query C2:** Enter a function that displays the number of rescues on the 5th month.

select SUM(QUANTITY) from PETRESCUE where MONTH(RESCUEDATE)='05';

**Query C3:** Enter a function that displays the number of rescues on the 14th day of the month.

select SUM(QUANTITY) from PETRESCUE where DAY(RESCUEDATE)='14';

**Query C4:** Animals rescued should see the vet within three days of arrivals. Enter a function that displays the third day from each rescue.

select DATE\_add(RESCUEDATE, INTERVAL 3 DAY) from PETRESCUE;

**Query C5:** Enter a function that displays the length of time the animals have been rescued; the difference between today’s date and the rescue date.

select DATEDIFF(CURRENT\_TIMESTAMP,RESCUEDATE) from PETRESCUE;