SQL Built-In Functions

```
create table PTRESCUE (
      ID INTEGER NOT NULL,
      ANIMAL VARCHAR(20),
      QUANTITY INTEGER,
      COST DECIMAL(6,2),
      RESCUEDATE DATE,
      PRIMARY KEY (ID)
      )

-- Insert sample data into PTRESCUE Table
insert into PTRESCUE values
      (1,'Cat',9,450.09,'2018-05-29'),
      (2,'Dog',3,666.66,'2018-06-01'),
      (3,'Dog',1,100.00,'2018-06-04'),
      (4,'Parrot',2,50.00,'2018-06-04'),
      (5,'Dog',1,75.75,'2018-06-10'),
      (6,'Hamster',6,60.60,'2018-06-11'),
      (7,'Cat',1,44.44,'2018-06-11'),
      (8,'Goldfish',24,48.48,'2018-06-14'),
      (9,'Dog',2,222.22,'2018-06-15')

SELECT * FROM PTRESCUE

SELECT SUM(COST) FROM PTRESCUE

SELECT SUM(COST) As SUM_OF_COST FROM PTRESCUE

SELECT MAX(Quantity) FROM PTRESCUE

SELECT AVG(COST) FROM PTRESCUE

SELECT AVG(COST/Quantity) FROM PTRESCUE where ANIMAL = 'Dog'

SELECT ROUND(COST) FROM PTRESCUE

SELECT Length(Animal) FROM PTRESCUE

SELECT UCASE(ANIMAL) from PTRESCUE

SELECT DISTINCT UCASE(Animal) FROM PTRESCUE

select * from PTRESCUE where LCASE(ANIMAL) = 'cat'

SELECT DAY (RESCUEDate) FROM PTRESCUE WHERE Animal='Cat'

SELECT Sum(Quantity) FROM PTRESCUE WHERE MONTH(RESCUEDATE) = 05

SELECT Sum(Quantity) FROM PTRESCUE WHERE DAy(RESCUEDATE) = 14

SELECT Day(RESCUEDATE + 3) FROM PTRESCUE

SELECT Day(CURRENT_DATE- RESCUEDATE) FROM PTRESCUE
```

```
================================================================================
==============
create table PTRESCUE (
      ID INTEGER NOT NULL,
      ANIMAL VARCHAR(20),
      QUANTITY INTEGER,
      COST DECIMAL(6,2),
      RESCUEDATE DATE,
      PRIMARY KEY (ID)
      )

Run time (seconds): 0.127
Status            : succeeded

================================================================================
==============
-- Insert sample data into PTRESCUE Table
insert into PTRESCUE values
      (1,'Cat',9,450.09,'2018-05-29'),
      (2,'Dog',3,666.66,'2018-06-01'),
      (3,'Dog',1,100.00,'2018-06-04'),
      (4,'Parrot',2,50.00,'2018-06-04'),
      (5,'Dog',1,75.75,'2018-06-10'),
      (6,'Hamster',6,60.60,'2018-06-11'),
      (7,'Cat',1,44.44,'2018-06-11'),
      (8,'Goldfish',24,48.48,'2018-06-14'),
      (9,'Dog',2,222.22,'2018-06-15')

Run time (seconds): 0.008
Status            : succeeded

================================================================================
==============
SELECT * FROM PTRESCUE

Run time (seconds): 0.005
Status            : succeeded

ID ANIMAL   QUANTITY COST   RESCUEDATE
-- -------- -------- ------ ----------
 1 Cat             9 450.09 2018-05-29
 2 Dog             3 666.66 2018-06-01
 3 Dog             1 100.00 2018-06-04
 4 Parrot          2  50.00 2018-06-04
 5 Dog             1  75.75 2018-06-10
 6 Hamster         6  60.60 2018-06-11
 7 Cat             1  44.44 2018-06-11
 8 Goldfish       24  48.48 2018-06-14
 9 Dog             2 222.22 2018-06-15


================================================================================
==============
SELECT SUM(COST) FROM PTRESCUE

Run time (seconds): 0.007
Status            : succeeded
```

```
1
-------
1718.24


================================================================================
==============
SELECT SUM(COST) As SUM_OF_COST FROM PTRESCUE

Run time (seconds): 0.005
Status            : succeeded

SUM_OF_COST
-----------
    1718.24


================================================================================
==============
SELECT MAX(Quantity) FROM PTRESCUE

Run time (seconds): 0.006
Status            : succeeded

1
--
24


================================================================================
==============
SELECT AVG(COST) FROM PTRESCUE

Run time (seconds): 0.005
Status            : succeeded

1
--------------------------------
190.91555555555555555555555555


================================================================================
==============
SELECT AVG(COST/Quantity) FROM PTRESCUE where ANIMAL = 'Dog'

Run time (seconds): 0.005
Status            : succeeded

1
--------------------------------
127.27000000000000000000000000


================================================================================
==============
SELECT ROUND(COST) FROM PTRESCUE

Run time (seconds): 0.005
```

```
Status            : succeeded

1
------
450.00
667.00
100.00
 50.00
 76.00
 61.00
 44.00
 48.00
222.00


================================================================================
==============
SELECT Length(Animal) FROM PTRESCUE

Run time (seconds): 0.006
Status            : succeeded

1
-
3
3
3
6
3
7
3
8
3


================================================================================
==============
SELECT UCASE(ANIMAL) from PTRESCUE

Run time (seconds): 0.007
Status            : succeeded

1
--------
CAT
DOG
DOG
PARROT
DOG
HAMSTER
CAT
GOLDFISH
DOG


================================================================================
==============
SELECT DISTINCT UCASE(Animal) FROM PTRESCUE
```

```
Run time (seconds): 0.005
Status            : succeeded

1
--------
CAT
DOG
GOLDFISH
HAMSTER
PARROT


================================================================================
==============
select * from PTRESCUE where LCASE(ANIMAL) = 'cat'

Run time (seconds): 0.005
Status            : succeeded

ID ANIMAL QUANTITY COST   RESCUEDATE
-- ------ -------- ------ ----------
 1 Cat           9 450.09 2018-05-29
 7 Cat           1  44.44 2018-06-11


================================================================================
==============
SELECT DAY (RESCUEDate) FROM PTRESCUE WHERE Animal='Cat'

Run time (seconds): 0.005
Status            : succeeded

1
--
29
11


================================================================================
==============
SELECT Sum(Quantity) FROM PTRESCUE WHERE MONTH(RESCUEDATE) = 05

Run time (seconds): 0.005
Status            : succeeded

1
-
9


================================================================================
==============
SELECT Sum(Quantity) FROM PTRESCUE WHERE DAy(RESCUEDATE) = 14

Run time (seconds): 0.005
Status            : succeeded
```

```
1
--
24


================================================================================
==============
SELECT Day(RESCUEDATE + 3) FROM PTRESCUE

Run time (seconds): 0.005
Status            : succeeded

1
--
 1
 4
 7
 7
13
14
14
17
18


================================================================================
==============
SELECT Day(CURRENT_DATE- RESCUEDATE) FROM PTRESCUE

Run time (seconds): 0.005
Status            : succeeded

1
--
24
21
18
18
12
11
11
 8
 7
```