**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

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190.915555555555555555555555555

=======================================================================================

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

Run time (seconds): 0.005

Status : succeeded

1

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127.270000000000000000000000000

=======================================================================================

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

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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