Name: Rohan Vinayak Chaudhari

Batch: Data Engineering

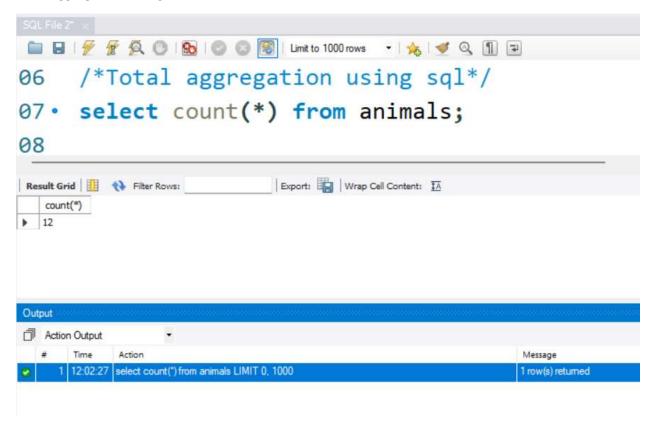
Date:25/01/2024

Topic: MYSQL(AGGREGATION,OVER,PARTITION,REGEX,SUBTOTALS,MATERIALIZED VIEWS)

Solution:

1. MYSQL:

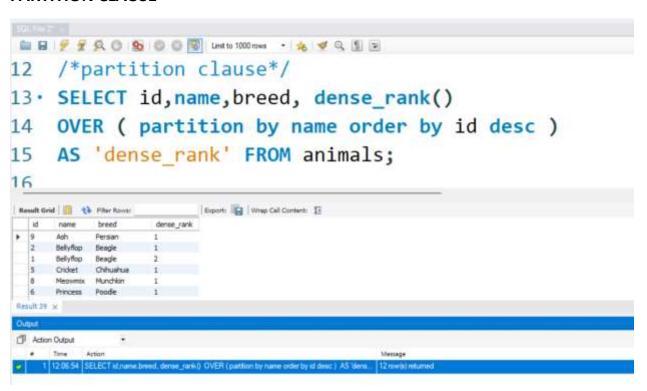
Total Aggregations using SQL Queries:



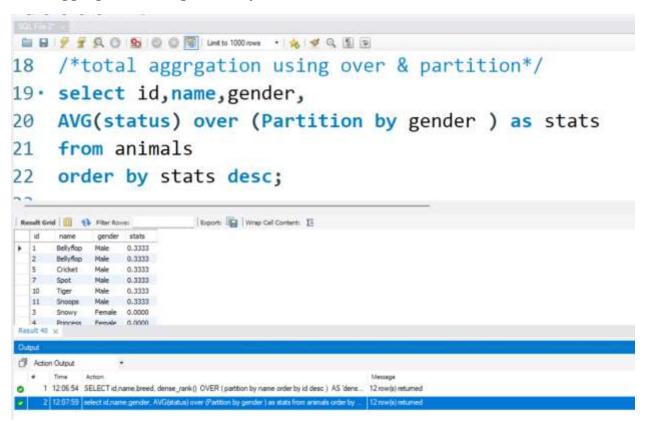
OVER CLAUSE:

```
| Asian Output | Second | Seco
```

PARTITION CLAUSE



total aggregation using over & partition:



ORDER OF EXECUTION:

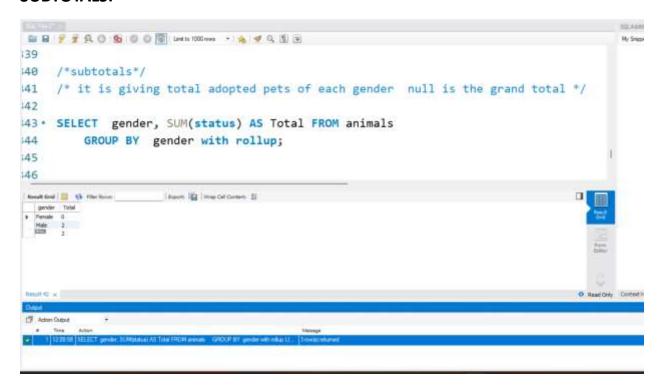
```
🗎 📓 📝 🖟 🔯 🔘 🦠 💿 🔘 🐧 🗓 Limit to 1000 rows 💌 掬 🚿 🔍 🐧 🖘
     /*order of execution*/
125
126 · select
                               /*5*/
     gender, count(*) as count
127
                               /*1*/
     from
128
     animals a
129
     join
130
131
     adoptions ad
132
     on
133
     a.id = ad.animal_id
                               /*2*/
134
    where
135
     gender like 'Male'
                               /*4*/
     group by gender
136
                               /*3*/
      Order by count desc
                               /*6*/
137
      limit 1;
138
                               /*7*/
```

OUTPUT:





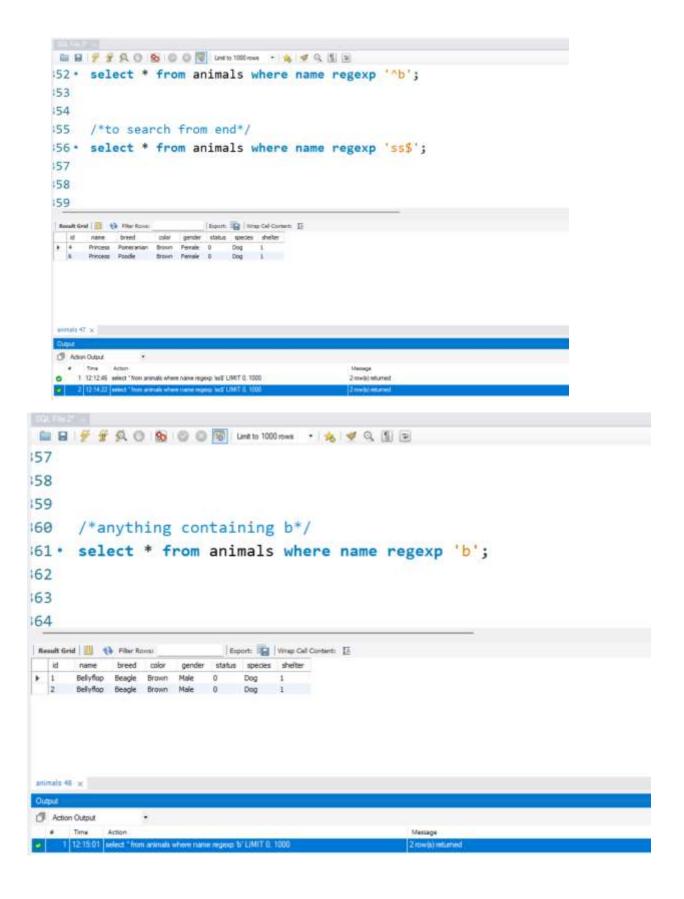
SUBTOTALS:

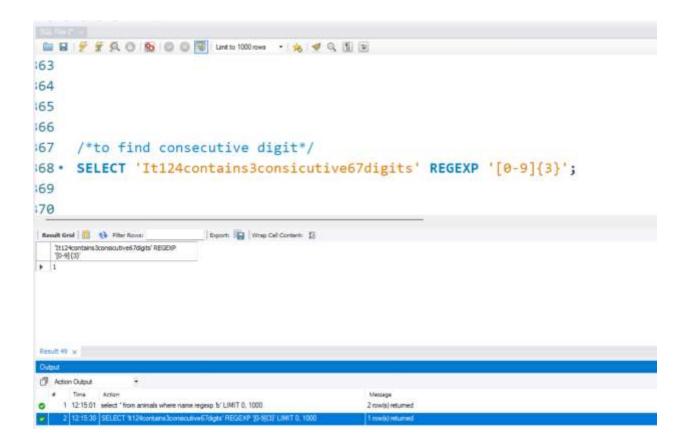


REGEX:

```
145
:46
47 /*regex**/
     /*finds the animal with either color crown or yellow*/
49 * SELECT * FROM animals WHERE color REGEXP 'Brown yellow';
50
51 /*finds the name starting with b*/
52 * select * from animals where name regexp '^b';
Result Grid 📋 📢 Fibr Rove
                          Bigorti 👸 | Wrap Cell Contanti 🗓
                  color gender status species shelter
     name
           breed
      Bellyfloo
           Beagle
                  Brawn.
                      Male
                              Dog 1
                  Brown Male 0
  2 Belyfop Beagle
                      Female 0
      Princess
           Pomerarsan Brown
                               Dog
                              Dog 1
  5 Cricket Chitsahua Brown Male 1
      Princess
  8 Meonmix Munchion Yellow Female 0 Cat 1
      Tiger
           Bengal
                  Brown Male
                               Cwt
                              Dog 2
 11 Snoops Swagle
                  Score Male 0
animals 41 ×
(3 Action Output
🖮 🔛 🦻 💆 🚨 ○ 🥸 ○ ○ 🚳 Linet to 1000 rows - % 🤘 🤉 🗓 🖫
/*finds the animal with either color crown or yellow*/
49 · SELECT * FROM animals WHERE color REGEXP 'Brown yellow';
150
    /*finds the name starting with b*/
:51
152 * select * from animals where name regexp '^b';
153
154
    /*to search from end*/
155
 Result Grid 📋 📢 Filter Roses
                          Espects | Wrap Call Contacts | Z
d name breed color gender status species shelter

1 Bellyflop Beagle Brown Male 0 Dog 1
2 Bellyflop Beagle Brown Male 0 Dog 1
 animals 45 ×
 Action Output
```





MATERIALIZED VIEW:

```
75
76 /*materilised views*/
77 · CREATE VIEW animals_view AS
   SELECT id, name, gender
78
   FROM animals
79
   WHERE gender = 'Male';
80
81
82 • SELECT * FROM animals_view;
83
84 · drop view animals_view;
85
(F Action Dutput
```

RETRIVEING VIEWS:

```
📾 🖬 💆 🛱 🚨 🕒 🚳 🔘 🔘 🔞 🗆 🗷
                                    SELECT id, name, gender
79
                              FROM animals
                                    WHERE gender = 'Male';
80
81
82 • SELECT * FROM animals_view;
83
   Export: Wrap Cel Content: IX
            id name gender
1 Bellyflop Male
            1 Bellyfop Male
2 Bellyfop Male
            5 Cricket Male
7 Spot Male
          10 Tiger Male
11 Snoops Male
  animals_view 50 m
Chitput
 Action Output

Time Action
1 12:16:06 CREATE VIEW arenals_view AS SELECT id_name gender FROM animals WHERE gender • ... 0 row(s) affected

Time Action
1 12:16:06 CREATE VIEW arenals_view AS SELECT id_name gender FROM animals WHERE gender • ... 0 row(s) affected

Time Action
1 12:16:06 CREATE VIEW arenals_view AS SELECT id_name gender FROM animals WHERE gender • ... 0 row(s) affected

Time Action
1 12:16:06 CREATE VIEW arenals_view AS SELECT id_name gender FROM animals WHERE gender • ... 0 row(s) affected

Time Action

Ti
2 12:17:38 SELECT * FROM annuals_view LIMIT 0, 1000
```

DROP VIEW:

