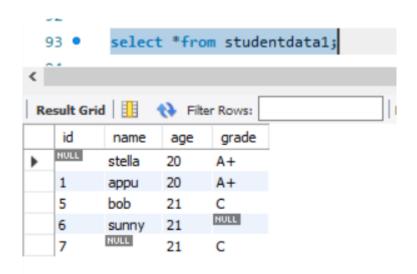
Akilesh K

k.akilesh123@gmail.com

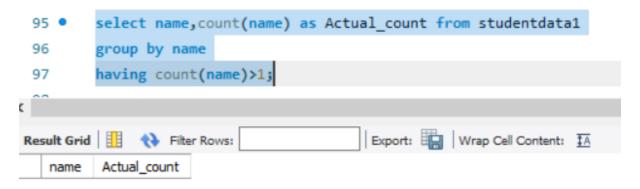
Data engineering - Batch 1

Date: 23-01-24

SQL-DATA CLEANING, RANK FUNCTIONS, STORED PROCEDURE



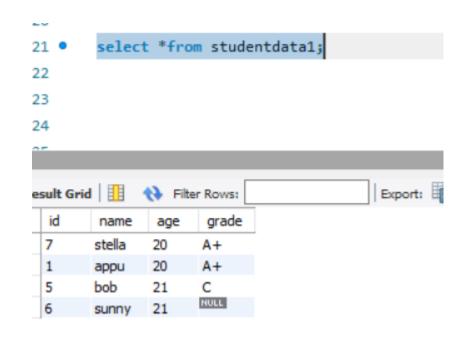
Data transformation

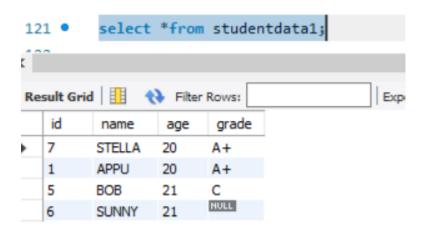


delete from studentdata1
where name is null;

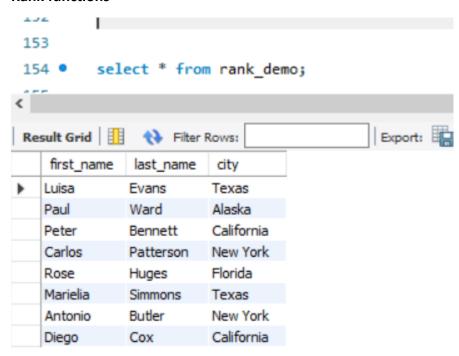
Data cleaning

```
update studentdata1 set id=7
where id is null;
```

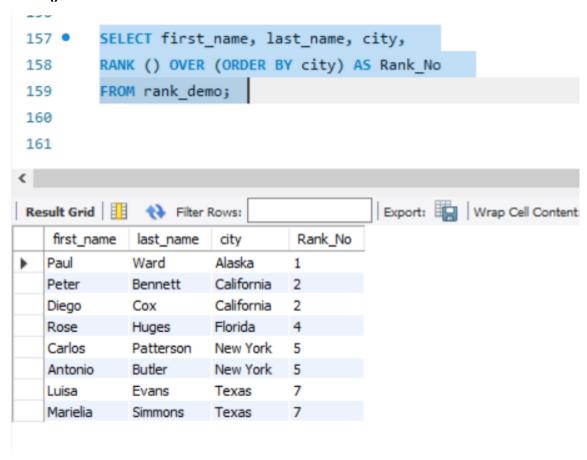




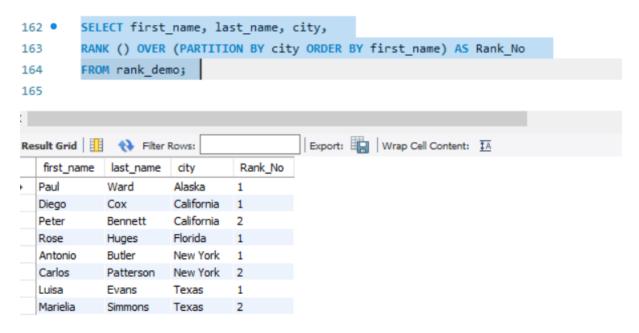
Rank functions



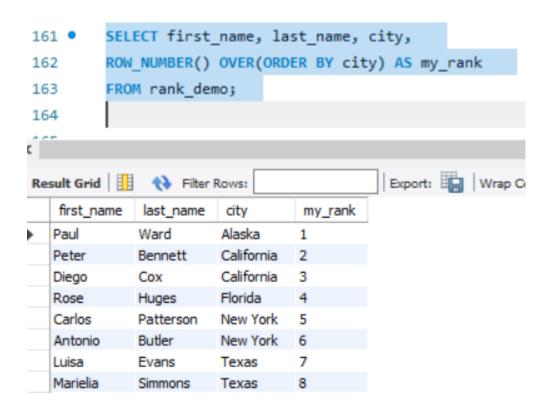
RANK() Functions



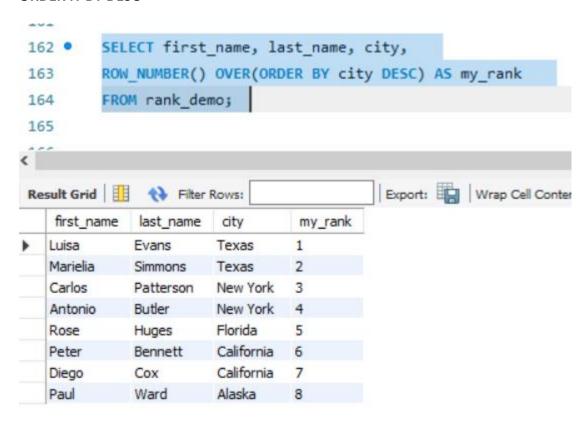
RANK FUNCTION USING PARTITION



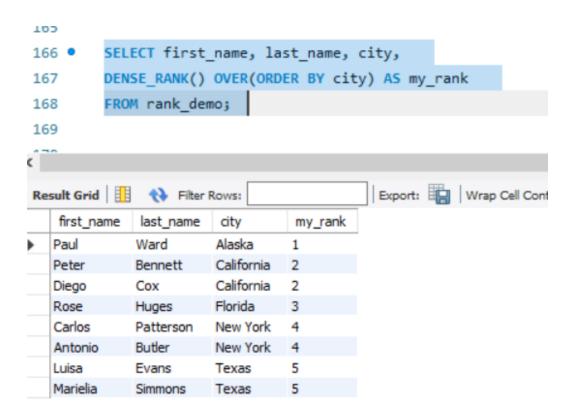
ROW_NUMBER() Function



ORDER IT BY DESC



DENSE_RANK() Function



NTILE(N) Function

```
171 •
         SELECT first name, last name, city,
172
         NTILE(3) OVER(ORDER BY city) AS my rank
         FROM rank_demo;
173
174
                                             Export: Wrap Cell (
Result Grid Filter Rows:
   first_name last_name
                         city
                                   my_rank
  Paul
             Ward
                        Alaska
                        California
  Peter
             Bennett
                                  1
                        California
             Cox
  Diego
                      Florida
  Rose
             Huges
                                  2
  Carlos
             Patterson
                        New York
                                  2
  Antonio
             Butler
                        New York 2
  Luisa
             Evans
                        Texas
                                  3
  Marielia
             Simmons
                       Texas
                                  3
```

STORED PROCEDURE

```
mysql> CREATE TABLE student (
-> id INT PRIMARY KEY,
-> name VARCHAR(50),
-> age INT,
-> salary INT
->);
Query OK, 0 rows affected (0.25 sec)
```

```
mysql> INSERT INTO student (id, name, age, salary) VALUES
-> (1, 'John', 27, 20000),
-> (2, 'Haris', 29, 28000),
-> (3, 'Peter', 17, 25000),
-> (4, 'Marco', 29, 28000),
-> (5, 'Diego', 17, 35000),
-> (6, 'Antonio', 22, 48000),
-> (7, 'Steffan', 16, 35000);
Query OK, 7 rows affected (0.04 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

CREATING THE PROCEDURE

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE studentList()
   -> BEGIN
   -> SELECT name, age, salary
   -> FROM STUDENT
   -> ORDER BY salary;
   -> END //
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> DELIMITER;
mysql>
```

CALLING THE PROCEDURE

```
mysql> CALL studentList;
        age salary
 name
            27
John
                 20000
 Peter
            17
                 25000
Haris
           29
                 28000
 Marco
            29
                 28000
           17
                 35000
Diego
Steffan
           16 | 35000
Antonio | 22 | 48000
7 rows in set (0.03 sec)
Query OK, 0 rows affected (0.04 sec)
```

NEW TABLE

CREATING PROCEDURE

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE dataofstudent()
    -> BEGIN
    -> SELECT * FROM studentdata1;
    -> END //
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> DELIMITER;
```

CALL PROCEDURE