Big Databases & Cloud Services Assignment 3

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April 1, 2019

1 Queries

We want to know how many active customers we have in our database.

```
mysql> select count(*) as active_count  from persons where active=1;
+--------------+
| active_count |
+--------------+
|          229 |
+--------------+
1 row in set (0,01 sec)
```

We want to know the distribution by gender of the all our clients in history.

```
mysql> select count(*) as gender_count  from persons group by gender;
+--------------+
| gender_count |
+--------------+
|          245 |
|          256 |
+--------------+
2 rows in set (0,00 sec)
```

We want to know how many woman are active customers.

```
mysql> select count(*) as active_F,active  from persons where gender='F'
group by active;
+----------+--------+
| active_F | active |
+----------+--------+
|      135 |      0 |
|      110 |      1 |
+----------+--------+
2 rows in set (0,01 sec)
```

We want to know how many active clients have custom clothes.

```
mysql> select count(*) as user_custom_conf from persons a
left join clothes b
on a.id=b.id_user where b.category='CUSTOM' and a.active=1;
+------------------+
```

```
| user_custom_conf |
+------------------+
|               30 |
+------------------+
1 row in set (0,01 sec)
```

We want to know the average weather sensibility per gender group of people who have Custom clothes

```
mysql> select avg(weather_sensibility) as avg ,a.gender from persons a
left join clothes b
on a.id=b.id_user where b.category='CUSTOM' group by a.gender;
+--------+--------+
| avg    | gender |
+--------+--------+
| 1.3889 | F      |
| 0.5676 | M      |
+--------+--------+
2 rows in set (0,00 sec)
```

We want to know the average age of inactive customers who had custom category clothes per gender group

```
mysql> select avg(YEAR(CURDATE()) - YEAR(birthdate))  as avg_age,a.gender
from persons a left join clothes b  on a.id=b.id_user where b.category='CUSTOM'
and a.active=0 group by a.gender;
+---------+--------+
| avg_age | gender |
+---------+--------+
| 32.1818 | F      |
| 32.8571 | M      |
+---------+--------+
2 rows in set (0,00 sec)
```

We want the users with most number of feedback.

```
SELECT p.id, p.username, COUNT(*) as count FROM persons p
INNER JOIN feedbacks f
ON p.id = f.id_user
        GROUP BY p.id
        ORDER BY count DESC
        LIMIT 5;
```

```
We get the following result with this query.

id, username, count
'55','sjosskovitz1i','6'
'149','blambden44','5'
'54','lheiton1h','5'
'8','hreynoollds7','5'
'194','bjerisch5d','5'
```

We want to select the users that have not provided any feedback so far. We limit the number of rows returned to five to keep this report in manageable length.

```
SELECT p.id, p.first_name, p.last_name, p.username, f.id_user FROM persons p
LEFT JOIN feedbacks f
ON p.id = f.id_user
        HAVING f.id_user IS NULL
        LIMIT 5;
```

We get the following result with this query.

```
id, first_name, last_name, id_user
'3','Spenser','Netley','snetley2',NULL
'16','Alejoa','Fenby','afenbyf',NULL
'20','Papageno','Tollet','ptolletj',NULL
'27','Jemimah','Blann','jblannq',NULL
'33','Samara','Roslen','sroslenw',NULL
```

We want now the users that have already provided at least one feedback. We limit the number of rows returned to five to keep this report in manageable length.

```
SELECT DISTINCT p.id, p.first_name, p.last_name, p.username, f.id_user FROM persons p
INNER JOIN feedbacks f
ON p.id = f.id_user
        LIMIT 5;
```

We get the following result with this query.

```
id, first_name, last_name, id_user
'1','Noel','Paslow','npaslow0','1'
'2','Ermengarde','Stonary','estonary1','2'
'4','Hatti','Pentin','hpentin3','4'
'5','Mignonne','Nuzzetti','mnuzzetti4','5'
'6','Concordia','Wadmore','cwadmore5','6'
```

To what weather conditions (mainly temperature) people needs more protection?

```
SELECT
  wc.temp  AS Temperature
, wc.temp_min  AS MIN
, wc.temp_max  AS MAX
, wc.feels_like AS Sensation
, wc.weather_protection AS Protection

FROM
‘weather_conditions‘ AS wc
WHERE
wc.weather_protection > 5.00
LIMIT 10
;
```

```
Temperature, MIN, MAX, Sensation, Protection
'-99.7','-105.1','-91.8','-102.1','7.7'
'-50.1','-54.7','-49.7','-54.5','9.54'
'83.2','80.4','92.9','88.1','7.15'
'85','79.7','90','80.6','8.18'
```

```
'-60.9','-64.6','-51','-64.3','6.86'
'47.1','44.5','54.2','43.2','5.43'
'-48.8','-55.7','-47.1','-51','8.34'
'-28.3','-31.9','-28.1','-29.3','7.64'
'9.8','3.7','10.6','10.3','6.29'
'-1.8','-6.8','6','-6.5','8.67'
```

What weather conditions are considered extremely dangerous for the human beings?

```
SELECT
  wc.temp  AS Temperature
, wc.temp_min  AS MIN
, wc.temp_max  AS MAX
, wc.feels_like AS Sensation
, wc.weather_protection AS Protection

FROM
`weather_conditions` AS wc
WHERE
wc.weather_protection >= 7.5 AND
wc.weather_protection <= 10.0
LIMIT 10
;
```

We get the following results.

```
Temperature, MIN, MAX, Sensation, Protection
'-99.7','-105.1','-91.8','-102.1','7.7'
'-50.1','-54.7','-49.7','-54.5','9.54'
'85','79.7','90','80.6','8.18'
'-48.8','-55.7','-47.1','-51','8.34'
'-28.3','-31.9','-28.1','-29.3','7.64'
'-1.8','-6.8','6','-6.5','8.67'
'-90','-98.2','-88.3','-85.8','8.72'
'12.5','9.4','21.1','13.7','7.6'
'-89.3','-90.9','-87.2','-85.2','9.21'
'76.2','70.3','85.7','78.1','7.95'
```

We want to know how many people over 18 we have.

```
mysql> select count(*) from persons  where YEAR(CURDATE()) - YEAR(birthdate)>18;

+----------+

| count(*) |

+----------+

|      356 |
```

```
+----------+

1 row in set (0,00 sec)
```

We want to know how many users have weak passwords

```
mysql> select count(*) from persons where length(password)<10;

+----------+

| count(*) |

+----------+

|      288 |

+----------+

1 row in set (0,01 sec)
```

We want to know if there is some possibility that members of the same family are using the application.

```
mysql> select  count(id),last_name from persons group by last_name having count(last_name)>1;

+-----------+-----------+

| count(id) | last_name |

+-----------+-----------+

|         2 | Baptie    |

|         2 | Escot     |

|         2 | McGaughay |

|         2 | Tiptaft   |

+-----------+-----------+

4 rows in set (0,00 sec)
```

We want to check whether we user with the same email

```
mysql> select  count(id),email from persons group by email having count(email)>1;
```

```
Empty set (0,00 sec)
```

2 Data base

```
mysql> show tables;
+-----------------------------------+
| Tables_in_weather-dress           |
+-----------------------------------+
| clothes                           |
| clothes_settings                  |
| clothes_settings_refer_to_clothes |
| feedbacks                         |
| logs                              |
| persons                           |
| weather_conditions                |
+-----------------------------------+
7 rows in set (0,00 sec)
```