```
>>> spark.sql("Select round((sum(if(y='yes',1,0))/count(*))*100, 4) as success_rate from banking").show()
+------------+
|success_rate|
+------------+
|     11.6985|
+------------+

>>> spark.sql("Select round((sum(if(y='no',1,0))/count(*))*100, 4) as failure_rate from banking").show()
+------------+
|failure_rate|
+------------+
|     88.3015|
+------------+

>>> spark.sql("Select max(age), min(age), round(mean(age),2) as avg_age from banking").show()
+--------+--------+-------+
|max(age)|min(age)|avg_age|
+--------+--------+-------+
|      95|      18|  40.94|
+--------+--------+-------+

>>> spark.sql("Select round(mean(age),2) as mean_age, round(percentile(age, 0.5),2) as median_age from banking").show
+--------+----------+
|mean_age|median_age|
+--------+----------+
|   40.94|      39.0|
+--------+----------+

>>> spark.sql("Select case when age<13 then 'Kids' when age < 20 then 'Teenagers' when age < 30 then 'Youngsters' whe
 where y='yes' group by age_group").show()
+------------+--------+
|   age_group|count(1)|
+------------+--------+
|  Youngsters|     910|
|     Seniors|    1385|
|   Teenagers|      18|
|Middle Agers|    2976|
+------------+--------+
```

```
>>> spark.sql("Select marital, count(*) from banking where y='yes' group by marital").show()
+--------+--------+
| marital|count(1)|
+--------+--------+
|divorced|     622|
| married|    2755|
|  single|    1912|
+--------+--------+

>>> spark.sql("Select case when age<13 then 'Kids' when age < 20 then 'Teenagers' when age < 30
 banking where y='yes' group by age_group,marital").show()
+------------+--------+--------+
|   age_group| marital|count(1)|
+------------+--------+--------+
|  Youngsters|divorced|      11|
|     Seniors|divorced|     278|
|     Seniors|  single|      66|
|  Youngsters|  single|     776|
|Middle Agers| married|    1591|
|     Seniors| married|    1041|
|Middle Agers|divorced|     333|
|  Youngsters| married|     123|
|   Teenagers|  single|      18|
|Middle Agers|  single|    1052|
+------------+--------+--------+
```