pyspark-interview-qns

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```
[0]: from pyspark.sql import functions as F
   Regex in Pyspark
[0]: data = [(1, 'Rohit', 'J852485741'),
           (2, 'Shubham', '6542879845'),
           (3, 'Sam', '854Y698547')]
    schema = ['id','Name','Contact']
    df = spark.createDataFrame(data, schema)
    df.display()
[0]: df.select("*").filter(F.col('contact').rlike('^[0-9]*$')).show()
   +---+
    | id|
          Name | Contact |
    +---+
    | 2|Shubham|6542879845|
   +---+
   Count rows in each column where NULLs present
[0]: data = [(1, 'Rohit', 20),
           (2, None, 30),
            (3, 'Sam', None),
            (4, None, None),
           (5, None, 37) ]
    schema = ['id','name','age']
    df = spark.createDataFrame(data, schema)
    df.display()
[0]: df_cnt = df.select([F.count(F.when(F.col(i).isNull(),i)).alias('null_records in_
    df_cnt.display()
```

```
How to remove delimiters
```

```
+---+---+
| ID|NAME|Age| Marks|
+---+---+
| 1| A| 20|31|32|34|
| 2| B| 21|21|32|43|
| 3| C| 22|21|32|11|
| 4| D| 23|10|12|12|
```

count Null percentage for each column

```
df.cache()
df.count()
df.show()
```

```
+----+
|Firstname|Lastname|City|
+----+
| Raj| Doe| null|
| null| Samuel|VIZAG|
| David| Smith| null|
| Samson| null| HYD|
| Immi| Steve| BNG|
| null| null| null|
```

```
[0]: for i in df.columns:
    total_count = df.select(F.col(i)).count()
    null_records = df.filter(F.col(i).isNull()).count()
    percentage = (null_records/total_count)*100
    print(i,round(percentage,2))
```

Firstname 33.33 Lastname 33.33 City 50.0