

```
In [1]: import pyspark

In [2]: import pandas as pd

In [3]: from pyspark.sql import SparkSession

In [4]: spark=SparkSession.builder.appName('Practise').getOrCreate()

In [27]: df_ocr = spark.read.option("quote", "\"").option("escape", "\\").load('ocr_input.csv',header=True, format="csv")
```

```
: df_ocr.show()
```

[illegible]

```
In [29]: df_ocr.printSchema()
```

```
root
|-- value: string (nullable = true)
```

```
In [30]: import pyspark.sql.types as T
```

```
In [31]: schema = T.StructType(
[
    T.StructField('inference_id', T.StringType(), True),
    T.StructField('actual_subject_name', T.StringType(), True),
    T.StructField('meeting_id', T.StringType(), True),
    T.StructField('ocr_name', T.StringType(), True),
    T.StructField('video_fps', T.StringType(), True),
    T.StructField('frame_no', T.StringType(), True)
])
```

```
In [32]: import pyspark.sql.functions as F
```

```
In [33]: mapped_df_ocr = df_ocr.withColumn("value", F.from_json("value", schema))
```

```
In [34]: mapped_df_ocr.show(truncate=False)
```

value
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Holden, 25, 1}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Holden, 25, 2}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Holden, 25, 3}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Holden, 25, 4}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 5}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 6}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 7}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 8}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 9}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 10}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 11}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 12}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 13}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 14}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 15}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 16}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 17}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 18}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 19}
{f78dd9f4-beb6-4ab7-bc5f-e43674565c14, Holden, 10131, Senior Partner, 25, 20}

```
In [36]: import pyspark.sql.functions as F
```

```
In [39]: parsed_df_ocr = mapped_df_ocr.select(F.col("value.*"))
         parsed_df_ocr.show(truncate=False)
         parsed_df_ocr.printSchema()
```

inference_id	actual_subject_name	meeting_id	ocr_name	video_fps	frame_no
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Holden	25	1
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Holden	25	2
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Holden	25	3
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Holden	25	4
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	5
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	6
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	7
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	8
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	9
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	10
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	11
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	12
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	13
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	14
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	15
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	16
f78dd9f4-beb6-4ab7-bc5f-e43674565c14	Holden	10131	Senior Partner	25	17

```
root
-- inference_id: string (nullable = true)
-- actual_subject_name: string (nullable = true)
-- meeting_id: string (nullable = true)
-- ocr_name: string (nullable = true)
-- video_fps: string (nullable = true)
-- frame_no: string (nullable = true)
```

```
In [40]: df_emotions = spark.read.option("quote", "\"").option("escape", "\\").load('emotions_input.csv', header=True, format="csv")
```

```
In [42]: df_emotions.show()
```

[illegible]

```
In [43]: df_emotions.printSchema()
```

```
root
|-- value: string (nullable = true)
```

```
In [44]: schema_emotions = T.StructType(
  [
    T.StructField('inference_id', T.StringType(), True),
    T.StructField('meeting_id', T.StringType(), True),
    T.StructField('frame_no', T.StringType(), True),
    T.StructField('emotion', T.StringType(), True)
  ]
)
```

```
In [45]: mapped_df_emotions = df_emotions.withColumn("value", F.from_json("value", schema_emotions))
```

```
In [47]: mapped_df_emotions.show(truncate=False)
```

```
+-----+
|value|
+-----+
|{"sad":0,"angry":1,"happy":0,"disgust":1,"neutral":100,"surprise":1}|
|{"sad":0,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":1,"angry":1,"happy":1,"disgust":0,"neutral":100,"surprise":0}|
|{"sad":0,"angry":0,"happy":0,"disgust":1,"neutral":100,"surprise":0}|
|{"sad":1,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":0,"angry":0,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":1,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|{"sad":0,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|{"sad":0,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|{"sad":1,"angry":0,"happy":0,"disgust":1,"neutral":100,"surprise":0}|
|{"sad":1,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":1,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":0,"angry":1,"happy":1,"disgust":1,"neutral":100,"surprise":0}|
|{"sad":0,"angry":1,"happy":1,"disgust":0,"neutral":100,"surprise":1}|
|{"sad":1,"angry":0,"happy":1,"disgust":84,"neutral":16,"surprise":1}|
|{"sad":0,"angry":0,"happy":1,"disgust":84,"neutral":15,"surprise":1}|
|{"sad":1,"angry":1,"happy":1,"disgust":84,"neutral":16,"surprise":0}|
|{"sad":1,"angry":1,"happy":0,"disgust":96,"neutral":0,"surprise":1}|
|{"sad":1,"angry":1,"happy":1,"disgust":100,"neutral":1,"surprise":1}|
|{"sad":0,"angry":0,"happy":1,"disgust":100,"neutral":0,"surprise":0}|
+-----+
```

```
In [48]: parsed_df_emotions = mapped_df_emotions.select(F.col("value.*"))
parsed_df_emotions.show(truncate=False)
parsed_df_emotions.printSchema()
```

```
+-----+-----+-----+-----+
|inference_id|meeting_id|frame_no|emotion|
+-----+-----+-----+-----+
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|1|{"sad":0,"angry":1,"happy":0,"disgust":1,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|2|{"sad":0,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|3|{"sad":1,"angry":1,"happy":1,"disgust":0,"neutral":100,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|4|{"sad":0,"angry":0,"happy":0,"disgust":1,"neutral":100,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|5|{"sad":1,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|6|{"sad":0,"angry":0,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|7|{"sad":1,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|8|{"sad":0,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|9|{"sad":0,"angry":0,"happy":1,"disgust":1,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|10|{"sad":1,"angry":0,"happy":0,"disgust":1,"neutral":100,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|11|{"sad":1,"angry":1,"happy":0,"disgust":0,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|12|{"sad":0,"angry":1,"happy":1,"disgust":1,"neutral":100,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|13|{"sad":0,"angry":1,"happy":1,"disgust":0,"neutral":100,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|14|{"sad":1,"angry":0,"happy":1,"disgust":46,"neutral":54,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|15|{"sad":0,"angry":1,"happy":1,"disgust":84,"neutral":16,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|16|{"sad":0,"angry":0,"happy":1,"disgust":84,"neutral":15,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|17|{"sad":1,"angry":1,"happy":1,"disgust":84,"neutral":16,"surprise":0}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|18|{"sad":1,"angry":1,"happy":0,"disgust":96,"neutral":0,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|19|{"sad":1,"angry":1,"happy":1,"disgust":100,"neutral":1,"surprise":1}|
|f78dd9f4-beb6-4ab7-bc5f-e43674565c14|10131|20|{"sad":0,"angry":0,"happy":1,"disgust":100,"neutral":0,"surprise":0}|
+-----+-----+-----+-----+
```

```

root
|-- inference_id: string (nullable = true)
|-- meeting_id: string (nullable = true)
|-- frame_no: string (nullable = true)
|-- emotion: string (nullable = true)

```

```

In [49]: # First identify the subject frames from ocr file. If the actual_subject_name and ocr_name
# column values are same then that frame number is the subject's frame number.

```

```

In [51]: mapped_df_ocr.head(10)

```

```

Out[51]: [Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Holden', video_fps='25', frame_no='1')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Holden', video_fps='25', frame_no='2')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Holden', video_fps='25', frame_no='3')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Holden', video_fps='25', frame_no='4')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='5')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='6')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='6')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='6')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='6')),
Row(value=Row(inference_id='f78dd9f4-beb6-4ab7-bc5f-e43674565c14', actual_subject_name='Holden', meeting_id='10131', ocr_name='Senior Partner', video_fps='25', frame_no='6'))]

```

```

In [ ]: df_ocr['subject_frame_no']=mapped_df_ocr.apply(lambda x:x['frame_no'] if x['actual_subject_name']==x['ocr_name'] else null,axis=1)

```

```

In [58]: from pyspark.sql.functions import when, col, lit
parsed_df_ocr = parsed_df_ocr.withColumn(
    'subject_frame_no',
    when(col('actual_subject_name') == col('ocr_name'), col('frame_no'))
    .otherwise(lit(None))
)

```

```

In [59]: parsed_df_ocr.show()

```

inference_id	actual_subject_name	meeting_id	ocr_name	video_fps	frame_no	subject_frame_no
f78dd9f4-beb6-4ab...	Holden	10131	Holden	25	1	1
f78dd9f4-beb6-4ab...	Holden	10131	Holden	25	2	2
f78dd9f4-beb6-4ab...	Holden	10131	Holden	25	3	3
f78dd9f4-beb6-4ab...	Holden	10131	Holden	25	4	4
f78dd9f4-beb6-4ab...	Holden	10131	Senior Partner	25	5	null
f78dd9f4-beb6-4ab...	Holden	10131	Senior Partner	25	6	null
f78dd9f4-beb6-4ab...	Holden	10131	Senior Partner	25	7	null
f78dd9f4-beb6-4ab...	Holden	10131	Senior Partner	25	8	null

```

In [ ]: # Left join emotions data on ocr data

```

```

In [ ]: # subject_emotion_df=emotions_df.merge(how='Left',left_on=['inference_id','meeting_id','frame_no'],right_on=['inference_id','meet

```

```

In [62]: emotions_df_alias = parsed_df_emotions.alias('emotions')
ocr_df_alias = parsed_df_ocr.alias('ocr')

subject_emotion_df = emotions_df_alias.join(
    other=ocr_df_alias,
    on=[
        col('emotions.inference_id') == col('ocr.inference_id'),
        col('emotions.meeting_id') == col('ocr.meeting_id'),
        col('emotions.frame_no') == col('ocr.subject_frame_no')
    ],
    how='left'
)

```

```
In [89]: # parsed_df_emotions.columns
# result_df = subject_emotion_df.select(emotions_df.alias.columns + [col('ocr.subject_frame_no')])
result_df = subject_emotion_df.select(['emotions.inference_id', 'emotions.meeting_id', 'emotions.frame_no', 'emotions.emotion', 'ocr.',
# emotions_df.alias.columns
```

```
In [90]: result_df.show()
```

inference_id	meeting_id	frame_no	emotion	subject_frame_no	video_fps
f78dd9f4-beb6-4ab...	10131	1	{"sad":0,"angry":...	1	25
f78dd9f4-beb6-4ab...	10131	10	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	11	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	12	{"sad":0,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	13	{"sad":0,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	14	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	15	{"sad":0,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	16	{"sad":0,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	17	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	18	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	19	{"sad":1,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	2	{"sad":0,"angry":...	2	25
f78dd9f4-beb6-4ab...	10131	20	{"sad":0,"angry":...	null	null
f78dd9f4-beb6-4ab...	10131	20132	{"sad":1,"angry":...	null	null

```
In [ ]: # result_df['new_emotion']=result_df.apply(Lambda x:{"sad":0,"angry": 0,"happy": 0,"disgust": 0,"neutral": 0,"surprise": 0} if x[
```

```
In [93]: from pyspark.sql.functions import when, col, lit
```

```
result_df = result_df.withColumn(
    "new_emotion",
    when(col("subject_frame_no").isNull(), lit({'sad':0,"angry": 0,"happy": 0,"disgust": 0,"neutral": 0,"surprise": 0}))
    .otherwise(col("emotion"))
)
```

```
In [92]: result_df.show()
```

inference_id	meeting_id	frame_no	emotion	subject_frame_no	video_fps	new_emotion
f78dd9f4-beb6-4ab...	10131	1	{"sad":0,"angry":...	1	25	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	10	{"sad":1,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	11	{"sad":1,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	12	{"sad":0,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	13	{"sad":0,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	14	{"sad":1,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	15	{"sad":0,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	16	{"sad":0,"angry":...	null	null	{"sad":0,"angry":...
f78dd9f4-beb6-4ab...	10131	17	{"sad":1,"angry":...	null	null	{"sad":0,"angry":...

```
In [96]: # df = result_df.withColumn("sad_emotion", col("new_emotion").getItem("sad"))
```

```
from pyspark.sql.functions import from_json, col
from pyspark.sql.types import StructType, StructField, IntegerType

# Define the schema for the new_emotion column
schema_emotions_json = StructType([
    StructField("sad", IntegerType()),
    StructField("angry", IntegerType()),
    StructField("happy", IntegerType()),
    StructField("disgust", IntegerType()),
    StructField("neutral", IntegerType()),
    StructField("surprise", IntegerType())
])
```

```
In [101]: modified_df = result_df.withColumn("new_emotion_struct", from_json(col("new_emotion"), schema_emotions_json))
```

```
In [109]: from pyspark.sql.functions import avg

mean_df = modified_df.groupBy("inference_id", "meeting_id") \
    .agg(avg("new_emotion_struct.sad").alias("sad"), avg("new_emotion_struct.angry").alias("angry"),
        avg("new_emotion_struct.happy").alias("happy"), avg("new_emotion_struct.disgust").alias("disgust"),
        avg("new_emotion_struct.neutral").alias("neutral"), avg("new_emotion_struct.surprise").alias("surprise"))
```

```
In [110]: mean_df.show()
```

```
-----+-----+-----+-----+-----+-----+
| inference_id|meeting_id|sad|angry|happy|disgust|neutr|
|-----+-----+-----+-----+-----+-----+
|f78dd9f4-beb6-4ab...|10131|0.19673357758398266|0.6436864647298622|0.22284431601217813|0.5320965994117344|37.5932710666185|
|06|0.19727540120749265|
-----+-----+-----+-----+-----+-----+
|
```

```
In [110]: mean_df.show()
```

```
-----+-----+-----+-----+-----+-----+
| inference_id|meeting_id|sad|angry|happy|disgust|neutr|
|-----+-----+-----+-----+-----+-----+
|f78dd9f4-beb6-4ab...|10131|0.19673357758398266|0.6436864647298622|0.22284431601217813|0.5320965994117344|37.5932710666185|
|06|0.19727540120749265|
-----+-----+-----+-----+-----+-----+
|
```

```
In [113]: output_df = result_df.select(['emotions.inference_id', 'emotions.meeting_id', 'emotions.frame_no', 'emotions.emotion', 'ocr.subject_f
```

```
In [125]: df.write.mode("overwrite").option("quote", "\"").option("escape", "\\").option("header", "true").csv("output_file.csv")
f.write.format("csv").option("header", "true").option("quote", "\"").option("escape", "\\").mode("overwrite").save("new_output_fi
```

```
In [120]: output_df.show()
```

```
-----+-----+-----+-----+-----+-----+
| inference_id|meeting_id|frame_no|emotion|subject_frame_no|video_fps|new_emotion|
|-----+-----+-----+-----+-----+-----+
|f78dd9f4-beb6-4ab...|10131|1|{"sad":0,"angry":...|1|25|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|10|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|11|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|12|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|13|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|14|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|15|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|16|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|17|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|18|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|19|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|2|{"sad":0,"angry":...|2|25|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20132|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20133|{"sad":0,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20134|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20135|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20136|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
|f78dd9f4-beb6-4ab...|10131|20137|{"sad":1,"angry":...|null|null|{"sad":0,"angry":...|
```