Description | Editorial | Solutions | Submissions

1435. Create a Session Bar Chart Premium

Solved

Easy | Topics | Companies

SQL Schema > | Pandas Schema >

Table: `Sessions`

```
+---------------------+---------+
| Column Name         | Type    |
+---------------------+---------+
| session_id          | int     |
| duration            | int     |
+---------------------+---------+
session_id is the column of unique values for this table.
duration is the time in seconds that a user has visited the application.
```

You want to know how long a user visits your application. You decided to create bins of `"[0-5>"`, `"[5-10>"`, "[10-15>", and `"15 minutes or more"` and count the number of sessions on it.

Write a solution to report the `(bin, total)`.

Return the result table in **any order**.

The result format is in the following example.

Example 1:

Input:
Sessions table:

session_id	duration
1	30
2	199
3	299
4	580
5	1000

Output:

bin	total
[0-5>	3
[5-10>	1
[10-15>	0
15 or more	1

Explanation:
For session_id 1, 2, and 3 have a duration greater or equal than 0 minutes and less than 5 minutes.
For session_id 4 has a duration greater or equal than 5 minutes and less than 10 minutes.
There is no session with a duration greater than or equal to 10 minutes and less than 15 minutes.
For session_id 5 has a duration greater than or equal to 15 minutes.

Seen this question in a real interview before? 1/5

Yes | No

Accepted 22.7K | Submissions 30.2K | Acceptance Rate 75.2%

Topics

Companies

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147 | 8

Code

Pandas | Auto

```python
import pandas as pd
import pandas as pd

def create_bar_chart(sessions: pd.DataFrame) -> pd.DataFrame:
    labels=['[0-5>','[5-10>','[10-15>','15 or more']
    sessions['duration_bins'] = pd.cut(sessions['duration'],bins=[0,300,600,900,float('inf')],labels=labels)
    columns={'duration_bins':'bin','count':'total'}
    df = pd.DataFrame(sessions.value_counts(subset='duration_bins')).reset_index().rename(columns=columns)
    return df

```

Saved | Ln 7, Col 35

Testcase | Test Result

Accepted Runtime: 605 ms

Case 1

Input

Sessions =

session_id	duration
1	30
2	199
3	299
4	580
5	1000

Output

bin	total