

Problem List<>⌕

DescriptionAccepted × 110EditorialSolutionsSubmissions

3204. Bitwise User Permissions AnalysisSolved

Premium

MediumTopics

SQL SchemaPandas Schema

Table: user_permissions

Column Name	Type
user_id	int
permissions	int

user_id is the primary key.
Each row of this table contains the user ID and their permissions encoded as an integer.

Consider that each bit in the permissions integer represents a different access level or feature that a user has.

Write a solution to calculate the following:

- common_perms: The access level granted to all users. This is computed using a bitwise AND operation on the permissions column.
- any_perms: The access level granted to any user. This is computed using a bitwise OR operation on the permissions column.

Return the result table in any order.

The result format is shown in the following example.

Example:

Input:

user_permissions table:

user_id	permissions
1	5
2	12
3	7
4	3

Output:

common_perms	any_perms
0	15

Explanation:

- common_perms: Represents the bitwise AND result of all permissions:
 - For user 1 (5): 5 (binary 0101)
 - For user 2 (12): 12 (binary 1100)
 - For user 3 (7): 7 (binary 0111)
 - For user 4 (3): 3 (binary 0011)
 - Bitwise AND: 5 & 12 & 7 & 3 = 0 (binary 0000)
- any_perms: Represents the bitwise OR result of all permissions:
 - Bitwise OR: 5 | 12 | 7 | 3 = 15 (binary 1111)

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

YesNo

Accepted 1,865/2KAcceptance Rate 93.7%

Topics

Discussion (3)

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0 Online

Code

PandasAuto

```
1 import pandas as pd
2
3 def analyze_permissions(user_permissions: pd.DataFrame) -> pd.DataFrame:
4
5
6     common_perms = user_permissions.iloc[0]['permissions']
7     any_perms = 0
8
9     for index, row in user_permissions.iterrows():
10         common_perms = common_perms & row['permissions']
11         any_perms = any_perms | row['permissions']
12
13     return pd.DataFrame({
14         "common_perms": [common_perms],
15         "any_perms": [any_perms]
16     })
```

TestcaseTest Result

AcceptedRuntime: 295 ms

Case 1

Input

user_permissions =

user_id	permissions
1	5
2	12
3	7
4	3