

CTE ASSIGNMENT

Subject Change Request Problem

```
CREATE PROCEDURE sp_UpdateSubjectAllotment
AS
BEGIN
    SET NOCOUNT ON;
    DECLARE @StudentID VARCHAR(50)
    DECLARE @RequestedSubjectID VARCHAR(50)
    DECLARE @CurrentSubjectID VARCHAR(50)

    DECLARE request_cursor CURSOR FOR
        SELECT StudentId, SubjectId FROM SubjectRequest;

    OPEN request_cursor;
    FETCH NEXT FROM request_cursor INTO @StudentID, @RequestedSubjectID;

    WHILE @@FETCH_STATUS = 0
    BEGIN
        SELECT @CurrentSubjectID = SubjectId
        FROM SubjectAllotments
        WHERE StudentId = @StudentID AND Is_Valid = 1;

        IF @CurrentSubjectID IS NULL
        BEGIN
            INSERT INTO SubjectAllotments (StudentId, SubjectId, Is_Valid)
            VALUES (@StudentID, @RequestedSubjectID, 1);
        END
        ELSE
        BEGIN

            IF @RequestedSubjectID <> @CurrentSubjectID
            BEGIN
                UPDATE SubjectAllotments
                SET Is_Valid = 0
                WHERE StudentId = @StudentID AND Is_Valid = 1;

                INSERT INTO SubjectAllotments (StudentId, SubjectId, Is_Valid)
                VALUES (@StudentID, @RequestedSubjectID, 1);
            END
        END
    END
```

```
FETCH NEXT FROM request_cursor INTO @StudentID, @RequestedSubjectID;  
END
```

```
CLOSE request_cursor;  
DEALLOCATE request_cursor;  
DELETE FROM SubjectRequest;  
END
```

LEETCODE

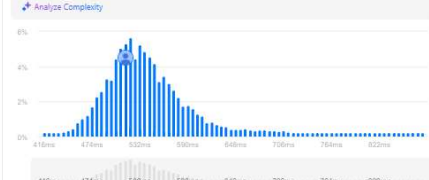
SQL 50 < > Submit

Description Accepted x Editorial Solutions Submissions

All Submissions

Accepted 22 / 22 testcases passed
Raj Singhania submitted at Jun 22, 2025 19:10

Runtime
517 ms | Beat: 70.24%
Analyze Complexity



Code: MySQL

```
# Write your MySQL query statement below  
select product_id  
from products  
where low_fats = 'Y' and recyclable = 'Y'
```

More challenges

- 2084. Drop Type 1 Orders for Customers With Type 0 Orders
- 1378. Replace Employee ID With The Unique Identifier
- 1421. NPV Queries

Code

```
MySQL Auto  
1 # Write your MySQL query statement below  
2 select product_id  
3 from products  
4 where low_fats = 'Y' and recyclable = 'Y'
```

Testcase Test Result

Accepted Runtime: 73 ms

Case 1

Input

Products =

product_id	low_fats	recyclable
0	Y	N
1	Y	Y
2	N	Y
3	Y	Y
4	N	N

Output

```
product_id
```

SQL 50 < > Submit

Description Editorial Solutions Submissions

584. Find Customer Referee

Easy Topics Companies Hint

SQL Schema > Pandas Schema >

Table: Customer

Column Name	Type
id	int
name	varchar
referee_id	int

In SQL, id is the primary key column for this table.
Each row of this table indicates the id of a customer, their name, and the id of the customer who referred them.

Find the names of the customer that are **not referred** by the customer with id = 2.
Return the result table in **any order**.
The result format is in the following example.

Example 1:

Input:

Customer table:

id	name	referee_id
1	Will	null

2.6K 321 1 0

Code

```
MySQL Auto  
1 # Write your MySQL query statement below  
2 SELECT name  
3 FROM Customer  
4 WHERE referee_id != 2 OR referee_id IS NULL;
```

Testcase Test Result

Accepted Runtime: 90 ms

Case 1

Input

Customer =

id	name	referee_id
1	Will	null
2	Jane	null
3	Alex	2
4	Bill	null
5	Zack	1
6	Mark	2

Output

```
name
```

SQL 50

Submit

Description

Editorial

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Easy

Topics

Companies

SQL Schema

Pandas Schema

Table: World

Column Name	Type
name	varchar
continent	varchar
area	int
population	int
gdp	bigint

name is the primary key (column with unique values) for this table.
Each row of this table gives information about the name of a country, the continent to which it belongs, its area, the population, and its GDP value.

A country is **big** if:

- It has an area of at least three million (i.e., 3000000 km²), or
- It has a population of at least twenty-five million (i.e., 25000000).

Write a solution to find the name, population, and area of the **big countries**.

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

The result format is in the following example.

Example 1:

Input:

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188651000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000

Code

MySQL

Auto

```

1 # Write your MySQL query statement below
2 SELECT name, population, area
3 FROM World
4 WHERE population >= 25000000 OR area >= 3000000;

```

Testcase

Test Result

Accepted

Runtime: 71 ms

Case 1

Input

World =

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188651000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000

Output

name	population	area
Algeria	37100000	2381741
Angola	20609294	1246700

SQL 50

Submit

Description

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SQL Schema

Pandas Schema

Table: Views

Column Name	Type
article_id	int
author_id	int
viewer_id	int
view_date	date

There is no primary key (column with unique values) for this table, the table may have duplicate rows.
Each row of this table indicates that some viewer viewed an article (written by some author) on some date.
Note that equal author_id and viewer_id indicate the same person.

Write a solution to find all the authors that viewed at least one of their own articles.

Return the result table sorted by **id** in ascending order.

The result format is in the following example.

Example 1:

Input:

Views table:

article_id	author_id	viewer_id	view_date
1	3	5	2019-08-01
1	3	6	2019-08-02
2	7	7	2019-08-01
2	7	6	2019-08-02
4	7	1	2019-07-22
3	4	4	2019-07-21

Code

MySQL

Auto

```

1 # Write your MySQL query statement below
2 SELECT DISTINCT author_id AS id
3 FROM Views
4 WHERE author_id = viewer_id
5 ORDER BY id ASC;

```

Testcase

Test Result

Accepted

Runtime: 90 ms

Case 1

Input

Views =

article_id	author_id	viewer_id	view_date
1	3	5	2019-08-01
1	3	6	2019-08-02
2	7	7	2019-08-01
2	7	6	2019-08-02
4	7	1	2019-07-22
3	4	4	2019-07-21

View more

SQL 50

Submit

Description

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Topics

Companies

SQL Schema

Pandas Schema

Table: Tweets

Column Name	Type
tweet_id	int
content	varchar

tweet_id is the primary key (column with unique values) for this table.
content consists of alphanumeric characters, '!', or ' ' and no other special characters.
This table contains all the tweets in a social media app.

Write a solution to find the IDs of the invalid tweets. The tweet is invalid if the number of characters used in the content of the tweet is **strictly greater** than 15.

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

The result format is in the following example.

Example 1:

Input:

Tweets table:

tweet_id	content
1	Let us Code

Code

MySQL

Auto

```

1 # Write your MySQL query statement below
2 SELECT tweet_id
3 FROM Tweets
4 WHERE LENGTH(content) > 15;

```

Testcase

Test Result

Accepted

Runtime: 116 ms

Case 1

Input

Tweets =

tweet_id	content
1	Let us Code
2	More than fifteen chars are here!

Output

tweet_id
2

SQL (Basic) Certificate



Raj Singhaniya's HackerRank Certificates

Share this Certificate



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SQL (Basic)

It includes simple queries, relationships, and aggregators.