

Top 5 Countries with Most Cross Border Volume Generated

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🕒 Recommended Time: 10 mins 🏆 Points: 20

Skills: [SQL \(Basic\)](#) ⓘ

Database

Write a query to fetch the top 5 country names by cross border volume (xccy) in GBP in the year 2020.

'Cross Border Volume' is calculated as the sum of all transaction volume where target and source currencies are different from each other, meaning that the transaction happened across two different currencies.

The output should be sorted in descending order by cross border volume (xccy_volume). Round the volume to nearest integer.

Output Format:

country | xccy_volume

▶ Schema

▶ Sample Data Tables

There are 3 tables: *USER_LOCATIONS*, *TRANSACTIONS*, *CURRENCY_RATES*

USER_LOCATIONS			
Name	Type	Description	Key
user_id	Integer	User ID	PK
country_id	Integer	Country ID	
country_name	String	Country Name	

TRANSACTIONS			
Name	Type	Description	Key
transaction_id	Integer	Transaction ID	PK
user_id	Integer	User id	
transaction_date	Date	Transaction date	
Source_Currency	String	Currency sent, name	
Target_Currency	String	Currency received, name	
Transaction_volume	Integer	Volume in Source Currency	

CURRENCY_RATES			
Name	Type	Description	Key
Currency	String	Currency Name	PK
Rate_to_GBP	Float	Conversion rate to GBP	

USER LOCATIONS		
user_id	country_id	country_name
1	22	United Kingdom
2	18	Italy

TRANSACTIONS					
transaction_id	user_id	transaction_date	Source_Currency	Target_Currency	Transaction_volume
1	2	2020-12-01	EUR	GBP	100
2	2	2020-04-03	EUR	USD	50
3	1	2020-06-08	EUR	EUR	100
4	1	2020-11-02	USD	TRY	500
5	1	2020-10-27	TRY	EUR	1000
6	1	2020-06-06	USD	GBP	10

CURRENCY RATES	
Currency	Rate_to_GBP
USD	0.85
EUR	0.92
TRY	0.1

UK 534
Italy 138

- Explanation**
- 1. In the country *UK*, there was 534 xccy volume in GBP.
 - 2. In the country *Italy*, there was 138 xcy volume in GBP.