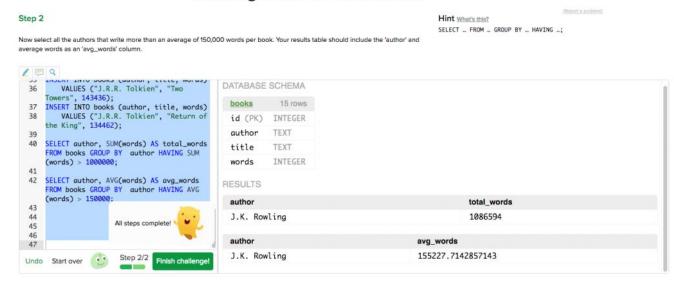
Challenge 7: The Wordiest Author

Tuesday, April 4, 2017 3:25 PM

Clipped from: https://www.khanacademy.org/computing/computer-programming/sql/more-advanced-sql-queries/p/challenge-the-wordiest-author

CREATE TABLE books (

Challenge: The wordiest author



Step 1

We've created a database of a few popular authors and their books, with word counts for each book.

In this first step, select all the authors who have written more than 1 million words, using GROUP BY and HAVING.

Your results table should include the 'author' and their total word count as a 'total_words' column.

id INTEGER PRIMARY KEY AUTOINCREMENT, author TEXT, title TEXT, words INTEGER); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Philosopher's Stone", 79944); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Chamber of Secrets", 85141); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Prisoner of Azkaban", 107253); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Goblet of Fire", 190637); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Order of the Phoenix", 257045); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Half-Blood Prince", 168923); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Deathly Hallows", 197651); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Twilight", 118501); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "New Moon", 132807); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Eclipse", 147930); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Breaking Dawn", 192196); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "The Hobbit", 95022); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Fellowship of the Ring", 177227); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Two Towers", 143436); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Return of the King", 134462); SELECT author, SUM(words) AS total words FROM books GROUP BY author HAVING SUM(words) > 1000000;

id (PK)INTEGER

authorTEXT
titleTEXT
wordsINTEGER

RESULTS
author total_words

J.K. Rowling 1086594

OTHER ATTEMPTS	
/** GOOD **/	
SELECT author, words AS total_words FROM books GROUP BY author;	
SELECT author, SUM(words) AS total_words FROM books GROUP BY author HAVING SUM(words) > 1000000;	
SELECT author, words AS total_words FROM books GROUP BY author HAVING SUM(words) > 1000000;	
/** BROKEN CODE SELECT author, words FROM books WHERE words >100000 GROUP BY author;	
SELECT author, words FROM (SELECT author, words AS total_words FROM books HAVING words >1000000 GROUP BY author);	
SELECT author, words AS total_words FROM books GROUP BY author HAVING SUM(words) > 1000000; **/	

Step 2

Now select all the authors that write more than an average of 150,000 words per book. Your results table should include the 'avg_words' column.

CREATE TABLE books (id INTEGER PRIMARY KEY AUTOINCREMENT, author TEXT. title TEXT. words INTEGER); 'author' and average words as an \mid INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Philosopher's Stone", 79944); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Chamber of Secrets", 85141); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Prisoner of Azkaban", 107253); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Goblet of Fire", 190637); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Order of the Phoenix", 257045); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Half-Blood Prince", 168923); INSERT INTO books (author, title, words) VALUES ("J.K. Rowling", "Harry Potter and the Deathly Hallows", 197651); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Twilight", 118501); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "New Moon", 132807); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Eclipse", 147930); INSERT INTO books (author, title, words) VALUES ("Stephenie Meyer", "Breaking Dawn", 192196); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "The Hobbit", 95022); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Fellowship of the Ring", 177227); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Two Towers", 143436); INSERT INTO books (author, title, words) VALUES ("J.R.R. Tolkien", "Return of the King", 134462); SELECT author, SUM(words) AS total_words FROM books GROUP BY author HAVING SUM(words) > 1000000; SELECT author, AVG(words) AS avg_words FROM books GROUP BY author HAVING AVG(words) > 150000;

books 15 rows id (PK)INTEGER authorTEXT titleTEXT wordsINTEGER

author total_words J.K. Rowling 1086594 author avg_words J.K. Rowling 155227.7142857143