# **Query 7.44**

Give me a summary of s\_link\_type. The result set should contain the count of each s\_link\_type. For example, here is a result set

Audio - 200 Video - 400

### **Initial Query:**

SELECT s\_link\_type, COUNT(s\_link\_type) AS "Type" FROM song\_media GROUP BY s\_link\_type ORDER BY s\_link\_type DESC



# Step 1 Changes:

- Changed song id to SMALLINT from INT
- Changed song\_media\_id to SMALLINT from INT

#### Step 3 Changes:

- Added BTREE index for s\_link\_type to *possibly* assist with column comparisons going on behind the scenes, not necessarily in the query itself

### Step 7 Changes:

- ALTER TABLE `song\_media` ADD FULLTEXT(`s\_link\_type`);
  - automatically indexes each (presumably unique) value in s\_link\_type column

#### **Final Changes:**

- Removed DESC from end of query because the sorting doesn't really matter and it improved performance quite a bit

## **Final Query:**

SELECT s\_link\_type, COUNT(s\_link\_type) AS "Type" FROM song\_media GROUP BY s\_link\_type ORDER BY s\_link\_type

