Practical Test Instruction

We have 4 tables

1. **category**
2. **catetory_relations**
3. **Item**
4. **Item_category_relations**

Details about tables and relations:

Category and Category_Relations table details:

Table: “**category**” contains the Category of Items.

Table: “**catetory_relations**” contains the parent-child relationship between “**category**”. (Many to Many from “**category**” table).

Example: One category has another category id as a parent.

Relation:
categoryId– Foreign key(Id from **category** table)
ParentcategoryId – Foreign key(Id from **category** table)

Item/Product table details:

Table: “**Item**” has no parent column of category.

Table: “**Item_category_relations**” contains the relation between **category** and **Item** tables.
(Many to Many from “**category**” and “**Item”** tables)

Relation:
ItemNumber – Foreign key (**Number** column from **Item** table)
categoryId – Foreign key(Id from **category** table)
Example: One item has multiple categories and one category has multiple items.

Please create a database and import the “ecommerce.sql” file.

Your Tasks

Task 1:

Show all categories with total item and order categories by total Items (DESC).

Example output:

Category Name	Total Items
Woman	30
Men	29
Junior	0

Note: You don’t need to show nested childs. We need a flat table of pare.

Task 2:

We’ve uncountable child in each parent category and a child might be a parent of another category.

Example:

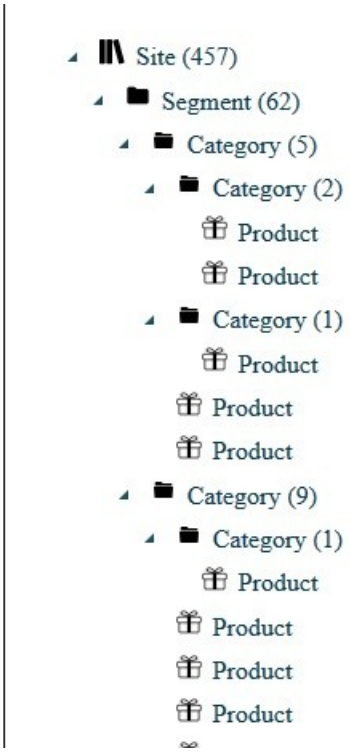
Clothing (2038)

- Men (256)
  - Shirts (100)
    - Half (30)
    - Full (70)
  - Pants (156)
    - Jeans (100)
    - Cotton (56)
      - Formal (20)
      - Casual (36)
- Women (1782)
  - Tops (1000)
  - Trousers (782)

The task is to create a **categories** tree with number of items contain in each category.

If a category has 5 child categories and each category has 50 items, then the parent category's total count will be 250 and for each child will be 50.

Example output: (You don't need to show the products, we need only categories)



Task 3:

Please create a simple OOP Project and populate the Task 1 and Task 2 in two different pages. Upload to a public Github repository and send us the link.

Thank you.