Assignment

Task 1:

Please write PHP code that converts flattened JSON (flattened.json) into a hierarchical JSON (hierarchical.json). You will find the JSON files in the attachment.

Requirements:
Use core PHP only. A user interface is not required.

Deliverable:
Commit the PHP code to a repository on github.com and send us the link to the repository.

Task 2:

1. Build a MySQL database schema for an e-commerce site products master. The master table(s) should fulfill the following criteria:

    - Each product has a name and unique id
    - Each product can have multiple prices, depending on the quantity being bought
    - The database will have lacks of records, so give a due consideration to performance

2. Write SQL queries to get the following information

    - Name of the most expensive product(s)
    - Name of the cheapest product(s)
    - Per item price for 75 memory cards
    - Per item price for 6 hammers

Sample data for you to use:

Product	Quantity Bought	Unit Price
Earphones	1 to 10	500
	11 to 50	485
	51 to 200	475
	201 to 1000	450
Memory Card	1 to 50	1000
	51 to 200	950
	201 to 1000	900
Hammer	1 to 5	250
	6 to 50	240
	51 to 200	230
	201 to 1000	220

Deliverable:
Create 2 text files. The first text file should have the create statements for the table(s). The second text file should have the SQL queries. Commit the files to the Git repository as well.

Deadline:
Please provide all deliverables within one week.