Exercises: Shampoo Company

This document defines the **exercise assignments** for the <u>"Databases Advanced – Hibernate" course @ Software University.</u>

Now that we have the structure of "Neck and Elbows" we have to retrieve some data:

Query Methods

1. Select Shampoos by Brand

Create a method that selects all shampoos by brand.

2. Select Shampoos by Brand and Size

Create a method that selects all shampoos by brand and size.

3. Select Shampoos by Size or Label

Create a method that selects all shampoos by size or label. Sort ascending by price.

4. Select Shampoos by Price

Create a method that selects all shampoos higher than a given price. Sort descending by brand.

5. Select Batches by Date

Create a method that selects all batches after a given date.

6. Select Ingredients without Price

Create a method that selects all ingredients without price. Sort descending by name and price.

7. Select Ingredients by Name

Create a method that selects all ingredients which name starts with given letters.

8. Select Ingredients by Names

Create a method that selects all ingredients which are contained in a given list. Sort ascending by price.

9. Select Batches by Shampoos

Create a method that selects all batches without shampoos. Sort descending by date.

10. Count Shampoos by Price

Create a method that counts all shampoos with price lower than a given price.



















JPQL

Select Shampoos by Label. 11.

Create a method that selects all shampoos by label.

Select Ingredients by Names. 12.

Create a method that selects all ingredients by names given in a list. Sort descending by id.

Select Shampoos by Ingredients

Create a method that selects all shampoos with ingredients in a given list.

14. Select Shampoos by Ingredients Count

Create a method that selects all shampoos with ingredients less than a given number.

Select Shampoos by Batch Date **15.**

Create a method that selects all shampoos in a batch with a date before a given date.

Select Shampoos by Ingredients Sum of Price

Create a method that selects all shampoos in with ingredients which sum is less than a given number.

Select Shampoos by Batch and Label 17.

Create a method that selects all shampoos in a batch with a given id and with a label subtitle different than a given string.

Select Ingredients by Sum of Price

Create a method that selects all ingredients and their sum of price which is higher than a given number. Use named query.

Select Ingredient Name and Shampoo Brand

Create a method that selects all ingredients names and their shampoo brands. Use named query.

Select Batch Date, Shampoo Label Title

Create a method that selects batch date and shampoo label title. Use named query.

Delete Ingredients by name 21.

Create a method that deletes ingredients by a given name. Use named query.

















22. Update Ingredients by price

Create a method that increases the price of all ingredients by 10%. Use named query.

23. Update Ingredients by Names

Create a method that updates all ingredients price which names are in a given list.













