

Middleware GSD (WS 2017) – Exercise 8

Submitted: 06. Dec.2017

Educational Objective:

Entities, Java Persistence API, Object Relational Mapping

Task 1 (JPA Basics):

- i. Please summarize pages 37-1 to 37-21 (JPA) of the Java EE Tutorial on about one page.
- ii. Explain the similarities and differences between JPA and JDBC.
- iii. What is an Entity Manager, what are Managed Objects?

Task 2 (Entities in Servlets):

- i. Modify your tax program so that an entity with the amount, tax rate, currency, date, and time of the call in your servlet is created and written to a suitable SQL database using JPA.
- ii. Write a second servlet that prints all the records in the database ordered by date and time of creation in an HTML page by using an entity manager.