

DAM. UNIT 3. ACCESS USING OBJECT- RELATIONAL MAPPING (ORM). HIBERNATE PART 3. NON ASSESSABLE EXERCISES

DAM. Acceso a Datos (ADA) (a distancia en inglés)

Unit 3. ACCESS USING OBJECT-RELATIONAL MAPPING (ORM)

Part 3. Access using Hibernate HQL criteria. Non assessable exercises

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Based and modified from Sergio Badal (www.sergiobadal.com)

Year 2024-2025

Aspects to bear in mind

Important

If you look for the solutions surfing the Internet or asking the oracle of ChatGPT you will be fooling yourself. Keep in mind that **ChatGPT is not infallible or all-powerful.**

It is a great tool to speed up your work once you have mastered a subject, but using it as a shortcut when acquiring basic skills and knowledge seriously undermines your learning. If you use it to get solutions or advice on your own, check the proposed solutions carefully as well. Try to solve the activities using the resources we have seen and the extended documentation you will find in the "Virtual Classroom".

Tips for programming

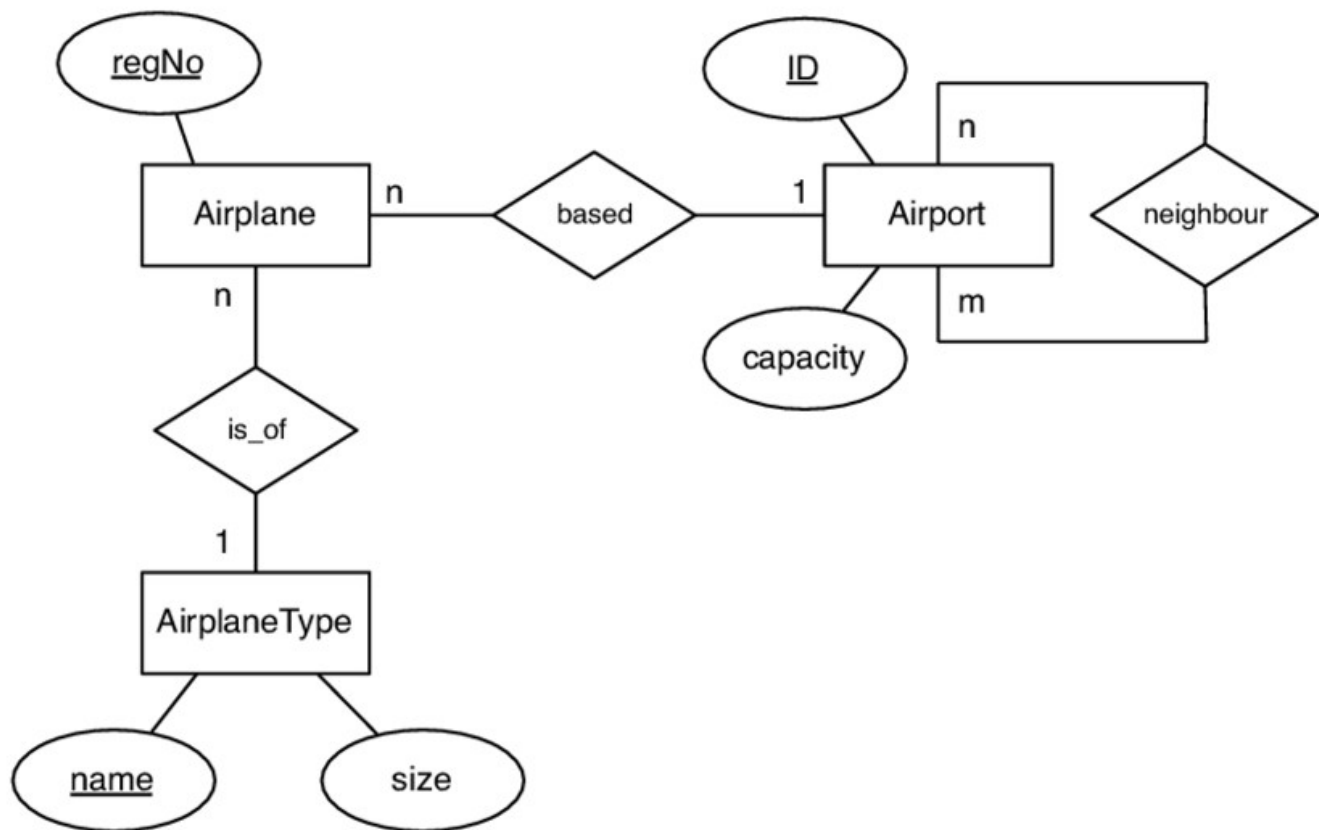
We advice to follow the next coding standards:

- One instruction per line.
- Add comments to make your code clearer and more readable.
- Use the Hungarian notation to recognise the type of variables at first sight.
- If necessary, we strongly recommend using buffer-based solutions.
- Remember that there are several ways to implement a solution, so choose the one you like best.

1. Console mode. Managing a MySQL relational database with Hibernate annotations

Activity (non assessable)

Create a Java project to manage this E-R diagram in **MySQL** using **Maven** and **Hibernate ANNOTATIONS**.

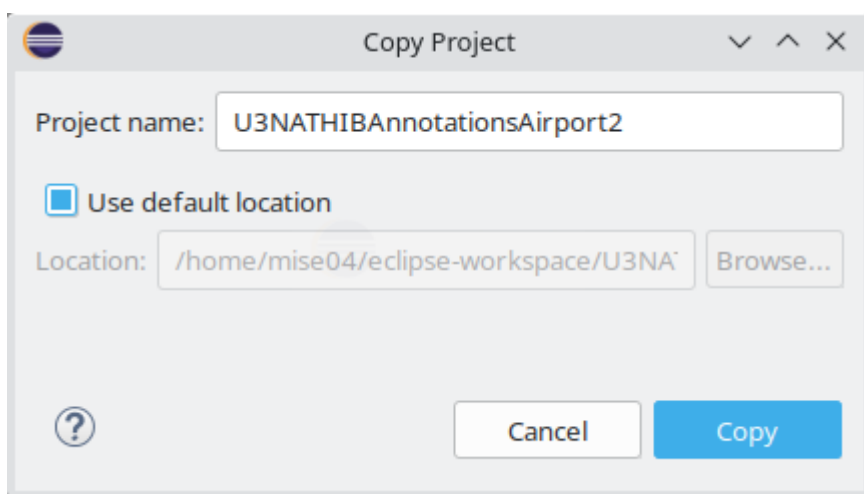


ATTENTION: Use the proper exceptions when accessing to databases via Hibernate.

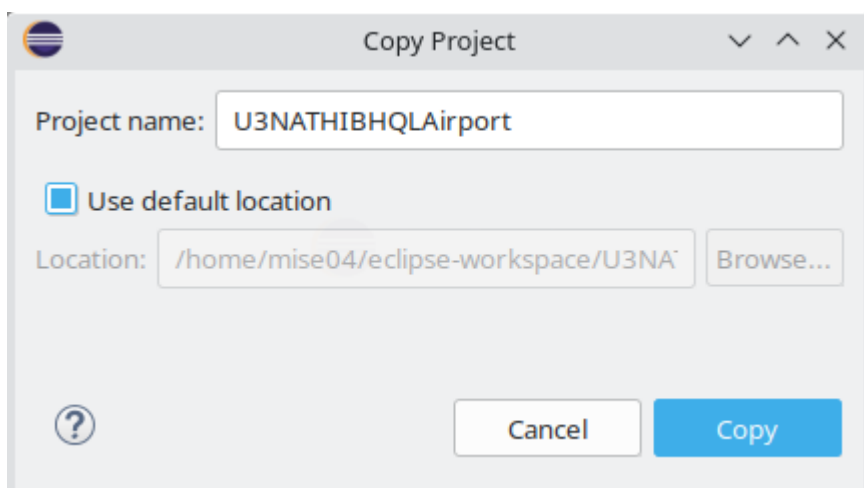
You **MUST** work with **Java**, **Maven** and **Hibernate**, using the new style as explained this week (mapping classes and using **annotations**). Feel free to share your doubts at the UNIT forum. **You can reuse code from the previous task with Hibernate annotations.**

1) Create a copy of the previous application following these steps:

- In **Eclipse**, click on the previous airport project with annotations.
- With the right mouse button choose the **Copy** option.
- With the right mouse button choose the **Paste** option. A window with a proposed name for the new project is displayed.



- Change to the new name. For example:



- And now you can work on the new project.

2) Create these features at the main method using HQL Criteria:

- Remove all airports, aeroplanes and aeroplane types.

- Insert 5 airports and 5 aeroplanes, leaving some airports with no aeroplanes and vice versa.
- List all aeroplanes classified by regno: ≤ 1500 and > 1500
- List all airports classified by capacity: ≤ 100 and > 100 (flights/day)



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