Lab Exercise: Merging Detached Objects

Task 1: As explained in the lecture on Merging Detached Objects, simulate a user's interaction with an application in which the user is doing the following:

1) Loading Guide with id=2
2) Modifying the salary of the Guide[id=2] to 2500 and the name of its associated Student[id=1] to Amy Jade Gill
3) Persist the changes made to the Guide[id=2] and Student Student[id=1] to hello-world database

Implement the given user interaction using detached objects and extended persistence context.

Consider the following to be the starting state of the student and guide tables for each implementation.

student

id	enrollment_id	name	guide_id
1	2014AL50456	Amy Jade Gill	2
2	2014JT50123	John Smith	2
3	2014BE50789	Bruce Lee	NULL
4	2014RG50347	Rahul Singh	3

guide

id	name	salary	staff_id
1	Mike Lawson	1000	2000MO10789
2	Ian Lamb	2000	2000IM10901
3	David Crow	3000	2000DO10777

Task 2: In the lecture, we used CascadeType.*MERGE* to merge the detached Guide, which merged not just the detached Guide but also the Student objects associated with it. Do you think the same could have been done using the CascadeType.*PERSIST* instead?

Task 3: If the line int numOfStudents = students.size(); is removed from the HelloWorldClient to initialize the students collection proxy, what are the exceptions it would cause to throw? If the answer is none, please explain why?

***The source code files for the lecture on "Merging Detached Objects" are available to be downloaded with this lab exercise. You could use them to complete the given tasks successfully.