



# Information Systems: Design and Development

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### **Degree in Computer Engineering**

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### Practice 3

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### **CRUD with JDBC**

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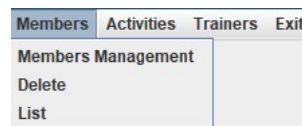
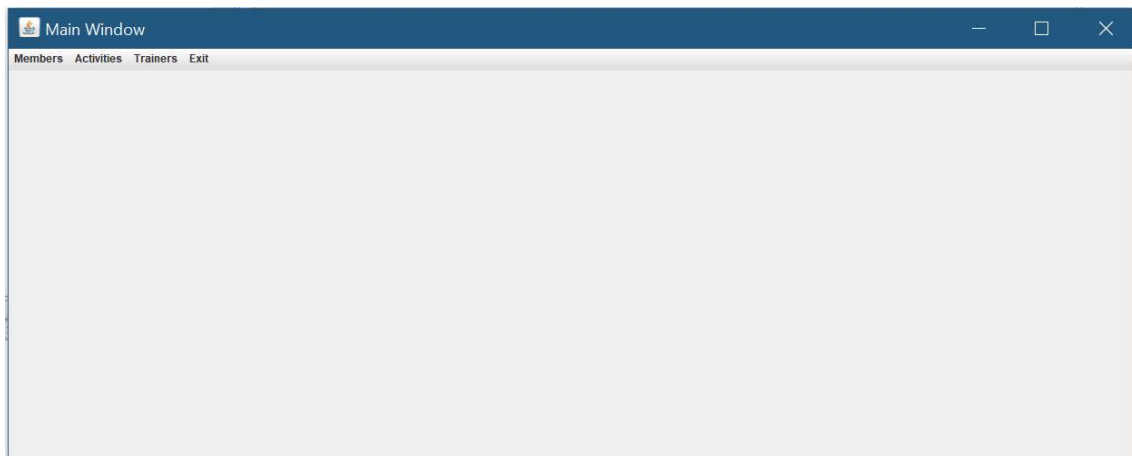
Estimated duration: 3 sessions (4 hours)

## Objectives

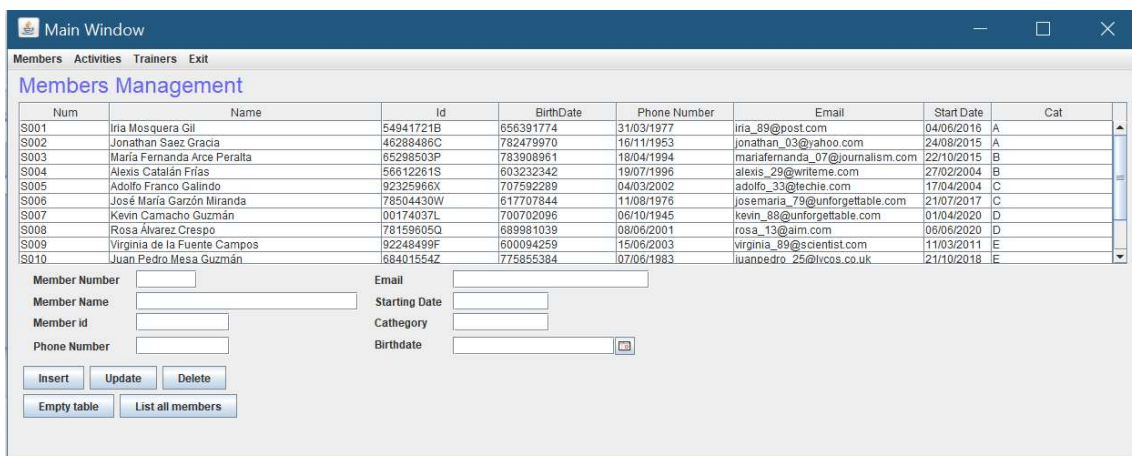
1. Learn how to perform CRUD operations with JDBC using the MVC (Model-View-Controller) pattern
2. Learn how to display data from a database in graphical mode by using the *JFrame* and *Jpanel* containers, as well as the *JTable* component

Starting from the Main Window designed in the previous practice, extend the application to manage the information of the member of the sample database.

The Main Window will look like the following image:



Clicking on "Member Management" this window will be displayed:



Where:

- **Insert button.** Insert a new member. Control the entry of invalid values.
- **Update button.** Refresh the data on a member
- **Delete button.** Deletes a member -ask for the confirmation before deleting
- **Clean list button.** Clean members table
- **List Member button.** Displays all members data

In addition, the application must fill in the text boxes with the information of the row that is indicated at the time of *clicking* with the mouse inside the table. Update and delete operations will be performed with the selected member.

**Main Window**

Members Activities Trainers Exit

### Members Management

Num	Name	Id	BirthDate	Phone Number	Email	Start Date	Cat
S001	Iria Mosquera Gil	54941721B	656391774	31/03/1977	iria_89@post.com	04/06/2016	A
S002	Jonathan Saez Gracia	46288486C	782479970	16/11/1953	jonathan_03@yahoo.com	24/08/2015	A
S003	Maria Fernanda Arce Peralta	65298503P	783908961	18/04/1994	mariafernanda_07@journalism.com	22/10/2015	B
S004	Alexis Catalán Frias	56612261S	603232342	19/07/1996	alexis_29@write.me.com	27/02/2004	B
S005	Adolfo Franco Galindo	92325966X	707592289	04/03/2002	adolfo_33@techie.com	17/04/2004	C
S006	José María Garzón Miranda	78504430W	617707844	11/08/1976	josemaria_79@unforgettable.com	21/07/2017	C
S007	Kevin Camacho Guzmán	00174037L	700702096	06/10/1945	kevin_86@unforgettable.com	01/04/2020	D
S008	Rosa Álvarez Crespo	78159605Q	689981039	08/06/2001	rosa_13@aim.com	06/06/2020	D
S009	Virginia de la Fuente Campos	92248499F	600094259	15/06/2003	virginia_89@scientist.com	11/03/2011	E
S010	Juan Pedro Mesa Guzmán	68401554Z	775855384	07/06/1983	luanpedro_25@tvcos.co.uk	21/10/2018	E

Member Number: S002      Email: jonathan\_03@yahoo.com

Member Name: Jonathan Saez Gracia      Starting Date: 24/08/2015

Member id: 46288486C      Category: A

Phone Number: 782479970      Birthdate:

Insert    Update    Delete

Empty table    List all members