



أكاديمية الحكومة الإلكترونية الفلسطينية

The Palestinian eGovernment Academy

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## Tutorial 1: Data and Business Process Modeling

Session 4 (Practice)

# Uniqueness and Mandatory Rules

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## Project Consortium:



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Palestine Polytechnic University, Palestine



Palestine Technical University, Palestine



Ministry of Telecom and IT, Palestine



Ministry of Interior, Palestine



Ministry of Local Government, Palestine



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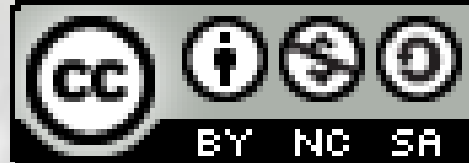
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## Practical Session 2 (ID card Model)

**Based on the previous practical session about the ID card** “According the Israeli ID Card that each Palestinian must hold: Each Person has an ID Number, First Name, Father Name, Grandfather Name, BirthDate, Birth Place, Religion, Gender, and Address. A Person may be a father/mother of one or more persons, and wife/husband of another person.”

Extend your ORM schema using all uniqueness and mandatory constraints you previously learned.

## Practical Session 2 (Student's Profile Model)

### Based on the previous practical session about the University

“According to the Ministry of Higher Education:A student can register a course that is taught by a lecturer, to obtain a mark. A course is offered in a Bachelor and Master program, which is offered by faculties. A faculty typically consists of a set of several Bachelor and Master programs. Each program consists of a set of courses. a university typically consists of a set of faculties. Each semester, a student gets a mark-sheet showing his results in the registered courses.”

Extend your ORM schema of the student's profile using all uniqueness and mandatory constraints you previously learned