

Database for Data Sciences

Lecture 5 :Design Session

Prof. Arouna NDAM NJOYA

University Institute of Technology (IUT), University of Ngaoundéré - Cameroon

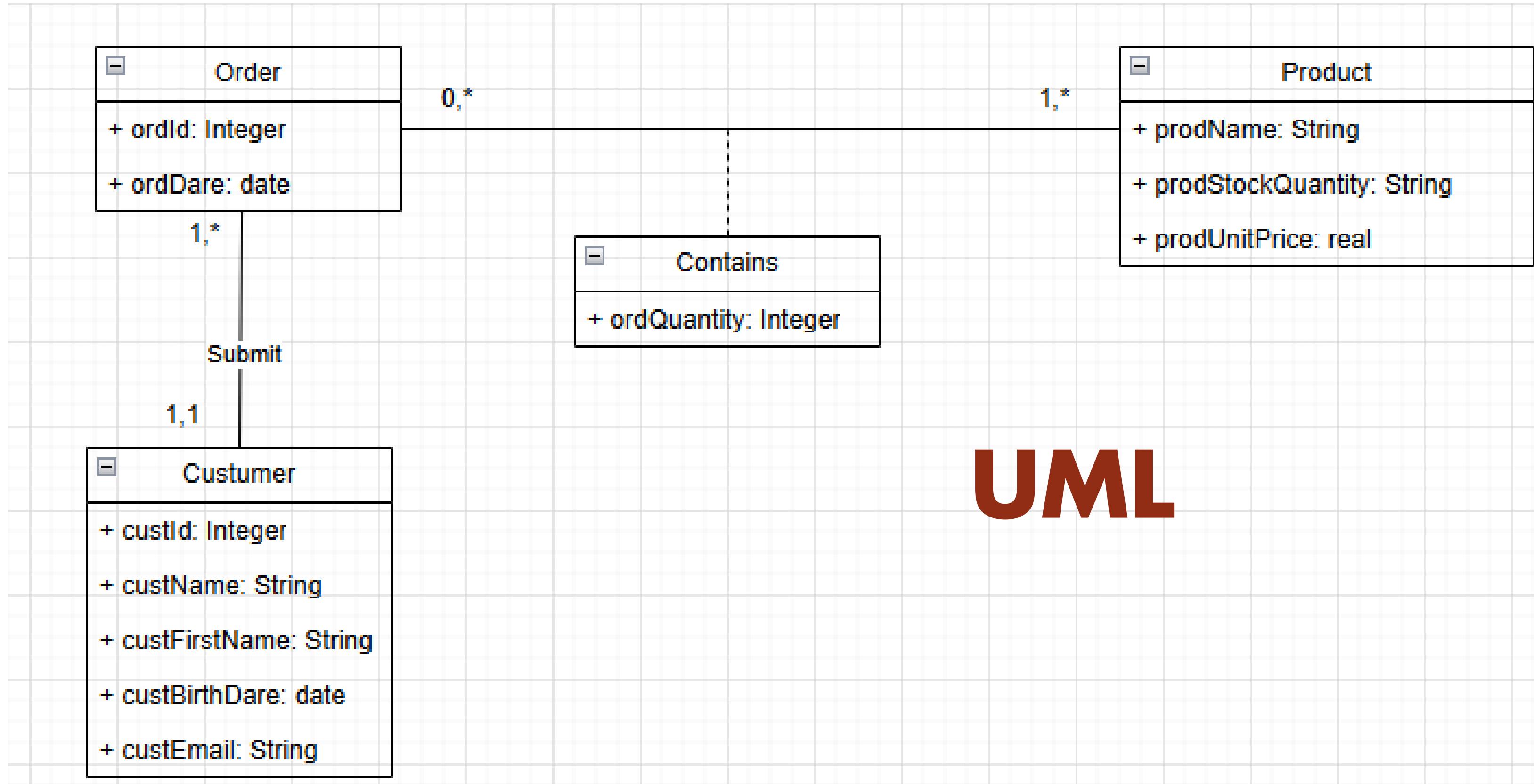
Objectives

Hands-on session on database design, from system requirements to relational and SQL schema

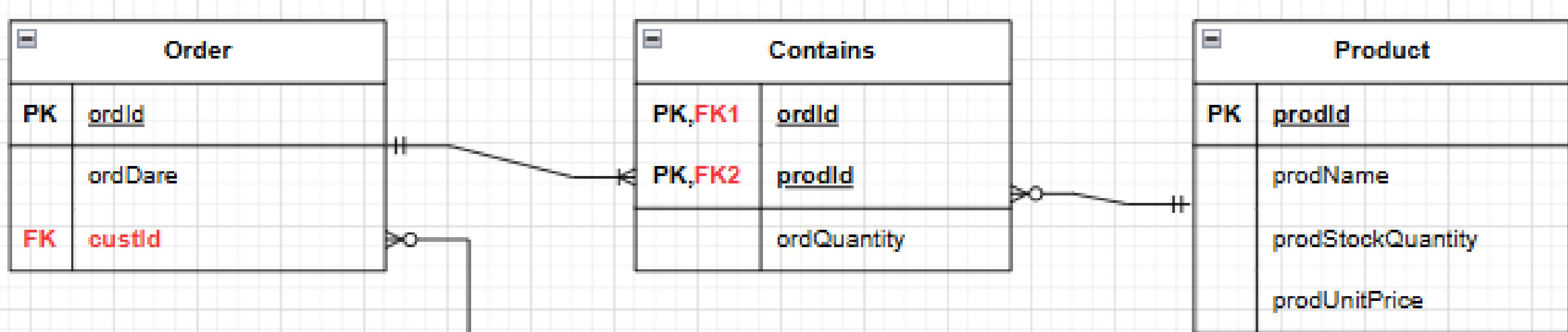
1

Case Study

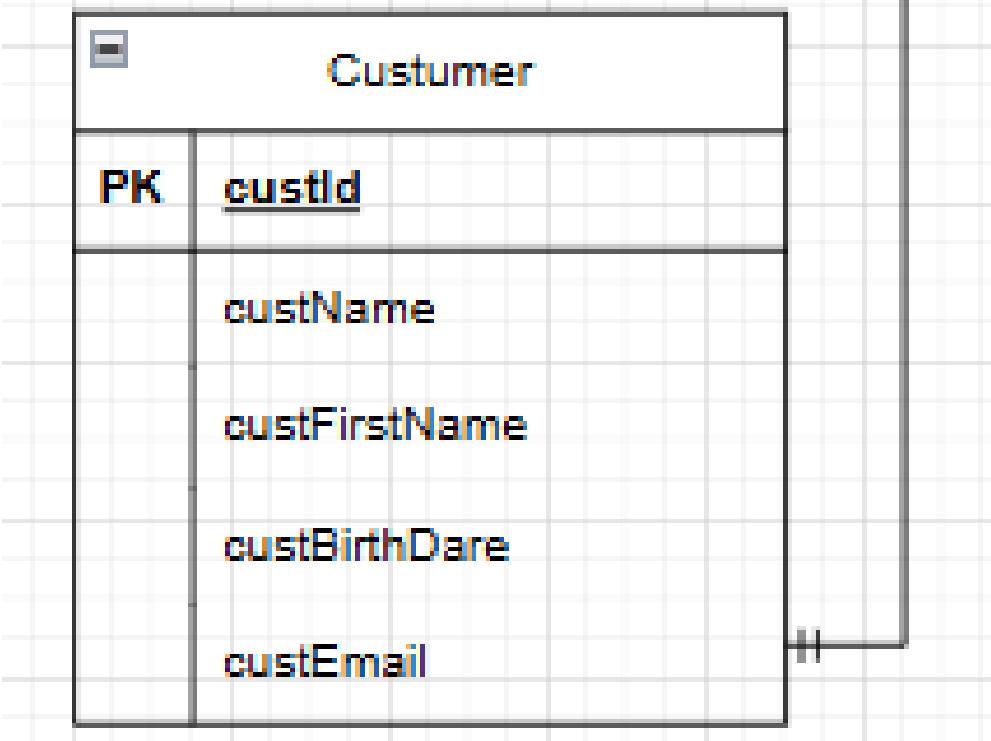
Case study 1 : Customer and Order



Case study 1 : Customer and Order

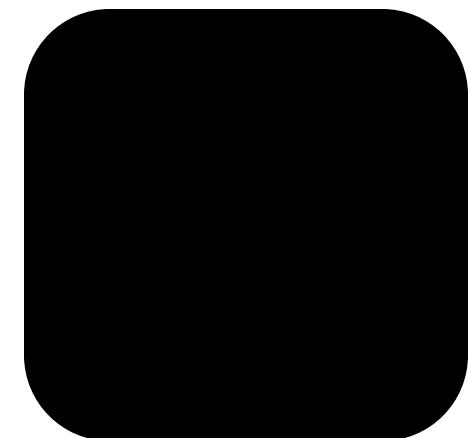


RDM/LDM



Tasks to be completed

- **Task 1:** Model the above case study on draw.io, providing UML and crow's foot notation diagrams.
- **Task 2:** Implement the resulting database in SQLite and then in PostgreSQL .
- **Task 3:** For each table, insert the test data.
- **Task 4:** Apply a 20% discount to products with a quantity greater than 100.



What Next?

African Institute for Mathematical Sciences | Feb 2026

Queries in SQL

THANK YOU

