

Database Systems

Program in Computer Engineering
School of Engineering

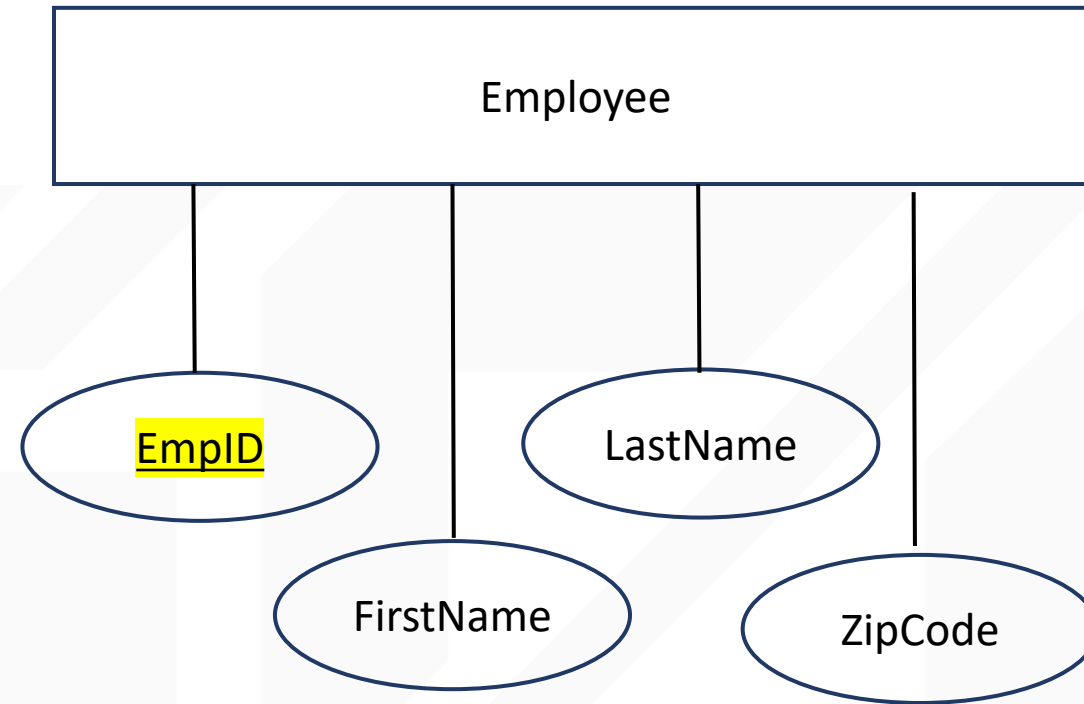
King Mongkut's Institute of Technology Ladkrabang

3.32. Consider a MAIL_ORDER database in which employees take orders for parts from customers.

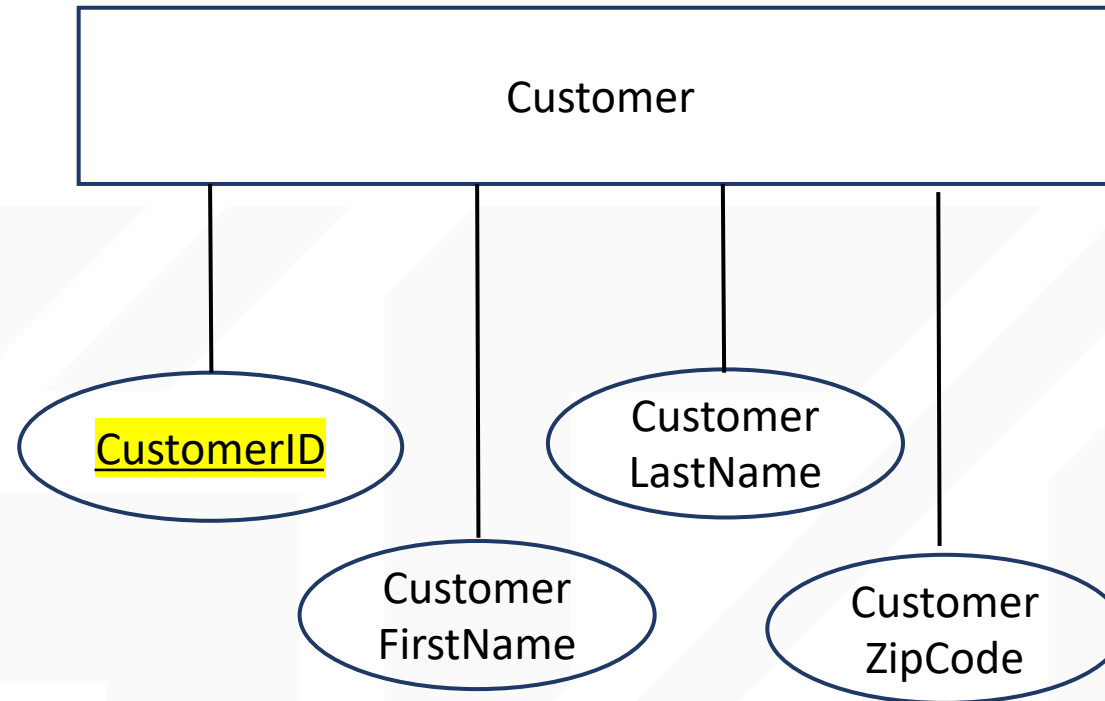
The data requirements are summarized as follows:

- The mail order company has employees, each identified by a unique employee number, first and last name, and Zip Code.
- Each customer of the company is identified by a unique customer number, first and last name, and Zip Code.
- Each part sold by the company is identified by a unique part number, a part name, price, and quantity in stock.
- Each order placed by a customer is taken by an employee and is given a unique order number. Each order contains specified quantities of one or more parts. Each order has a date of receipt as well as an expected ship date. The actual ship date is also recorded.
- **Design an entity–relationship diagram for the mail order database.**

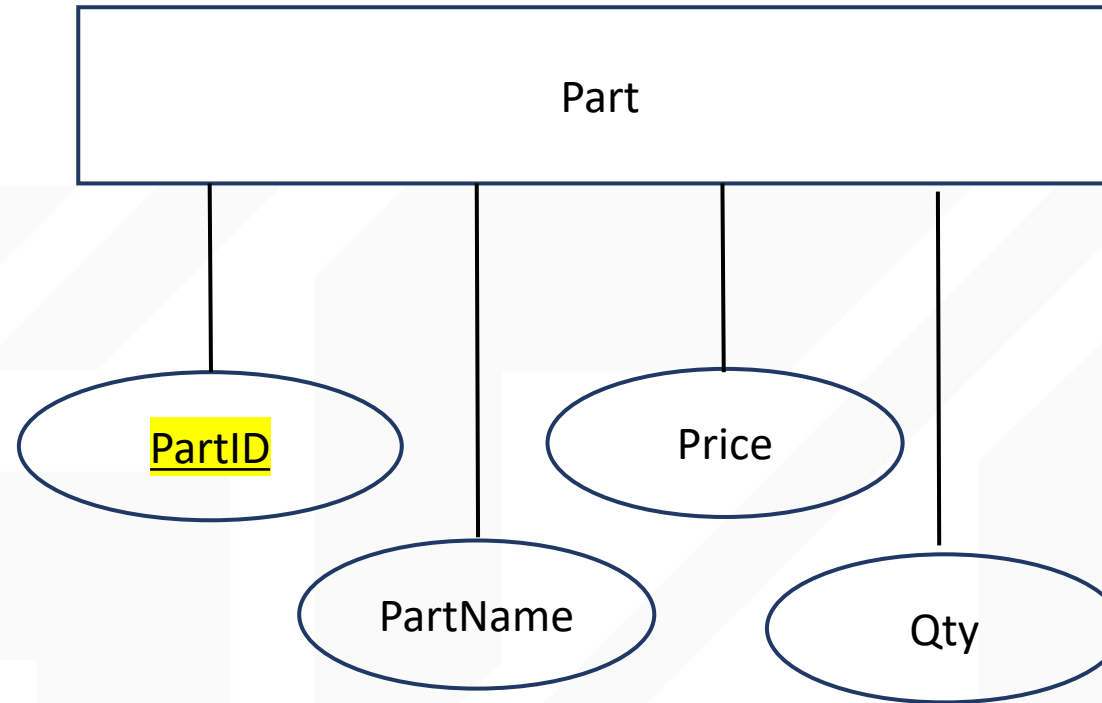
- The mail order company has **employees**, each identified by a **unique employee number**, first and last name, and Zip Code.



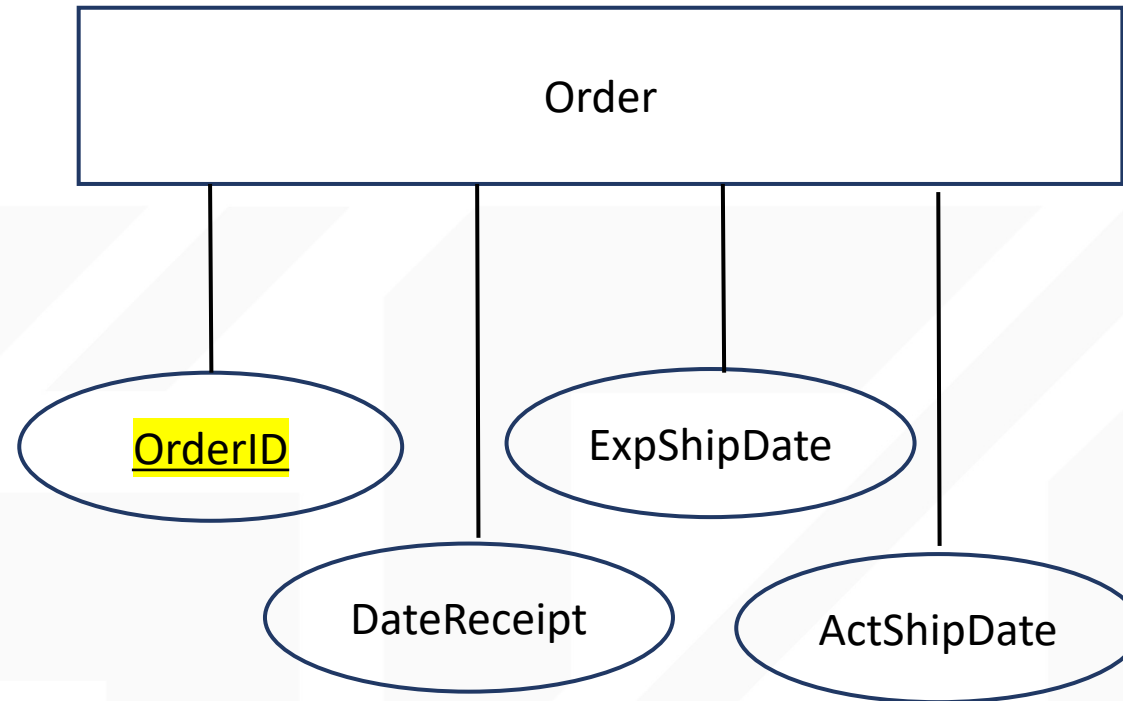
- Each **customer** of the company is identified by a **unique customer number**, first and last name, and Zip Code.



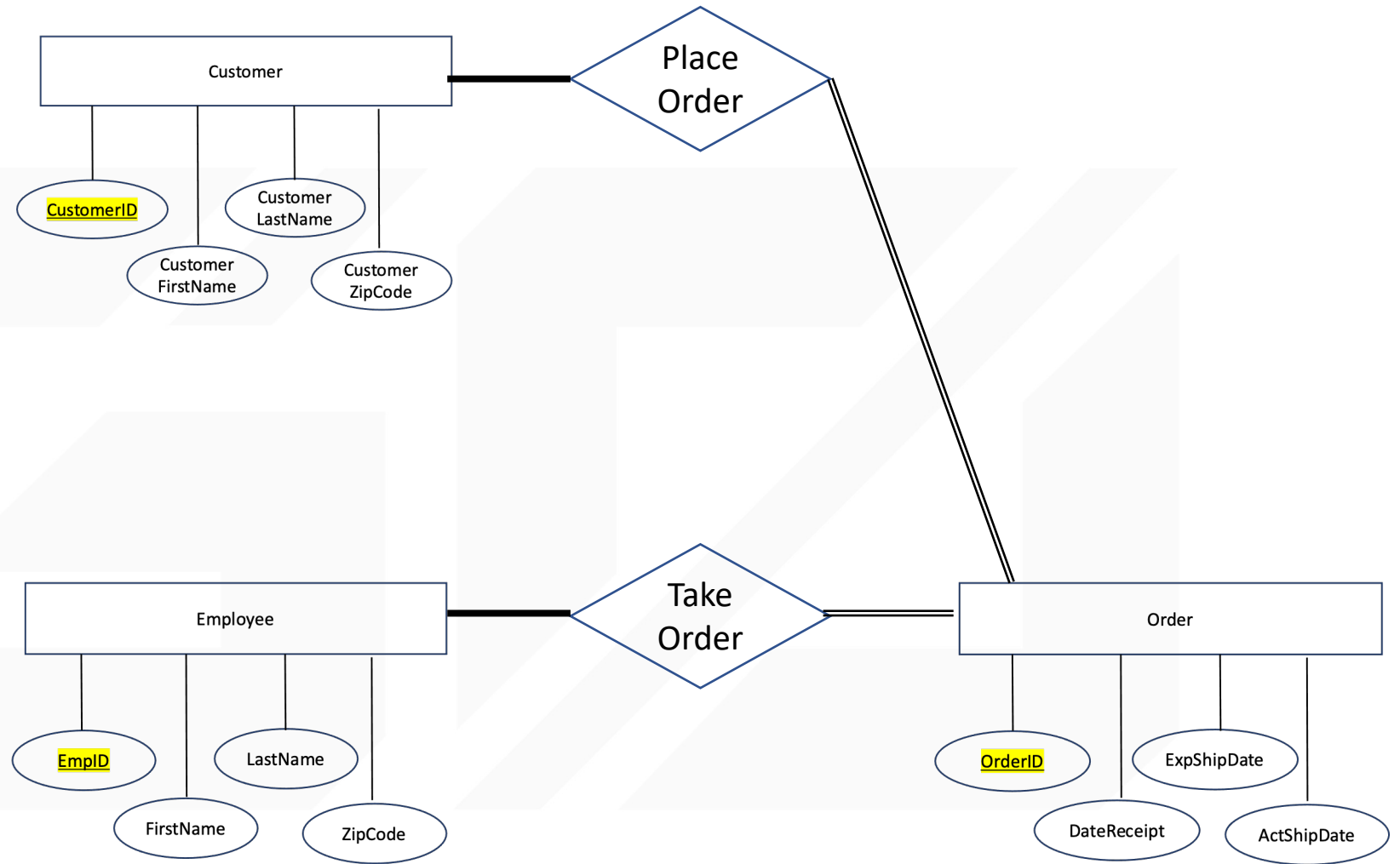
- Each **part** sold by the company is identified by a **unique part number**, a part name, price, and quantity in stock.



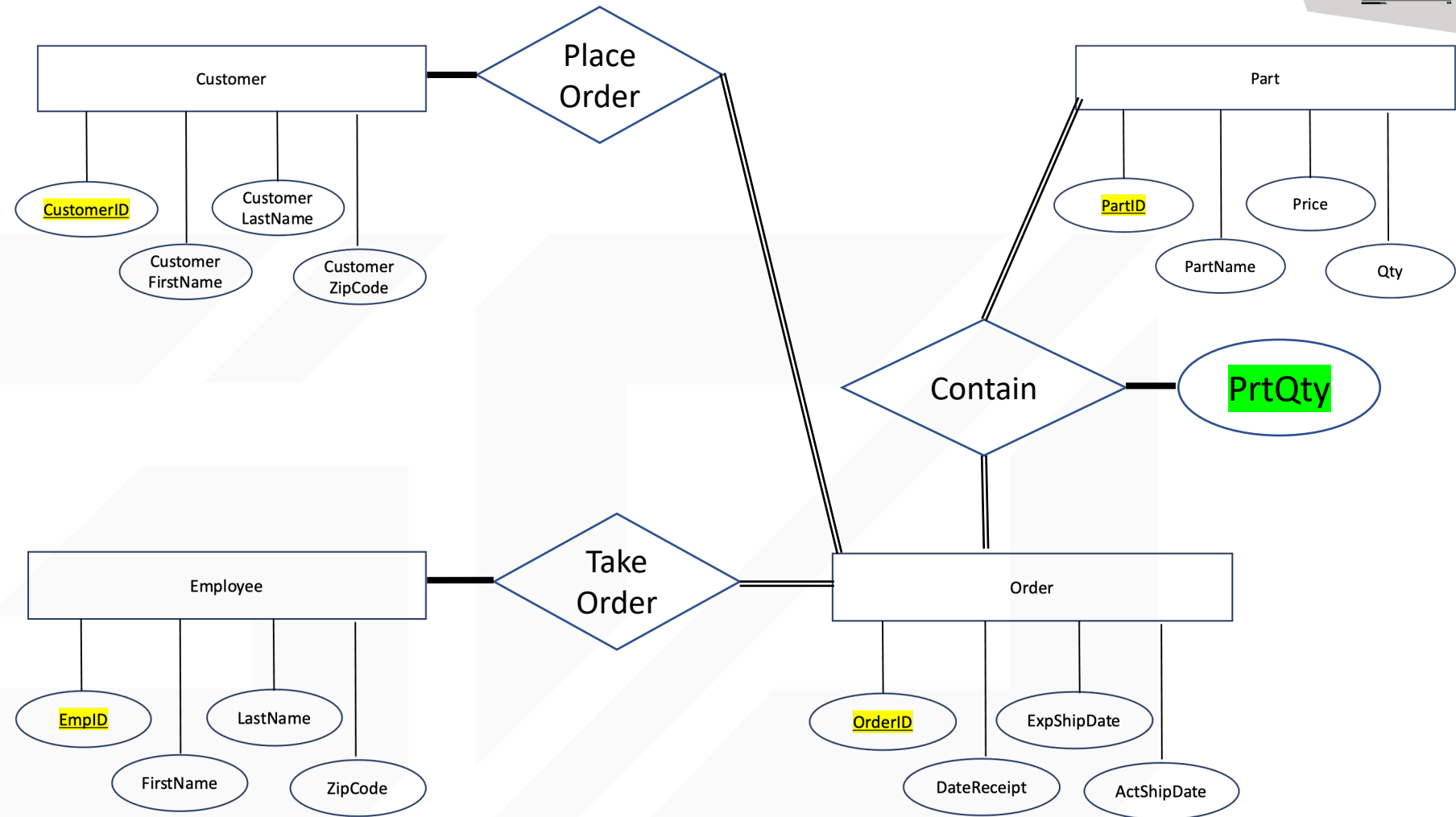
- Each **order** placed by a customer is taken by an employee and is given a **unique order number**.
- Each order contains specified quantities of one or more parts.
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ER Design – an in-class assignment (7.5 pts.)

- Group effort
 - 5 persons per group
- Criteria
 - Correctness (2.5 pts.)
 - Presentation (2.5 pts.)
 - Questions (2.5 pts.)

