



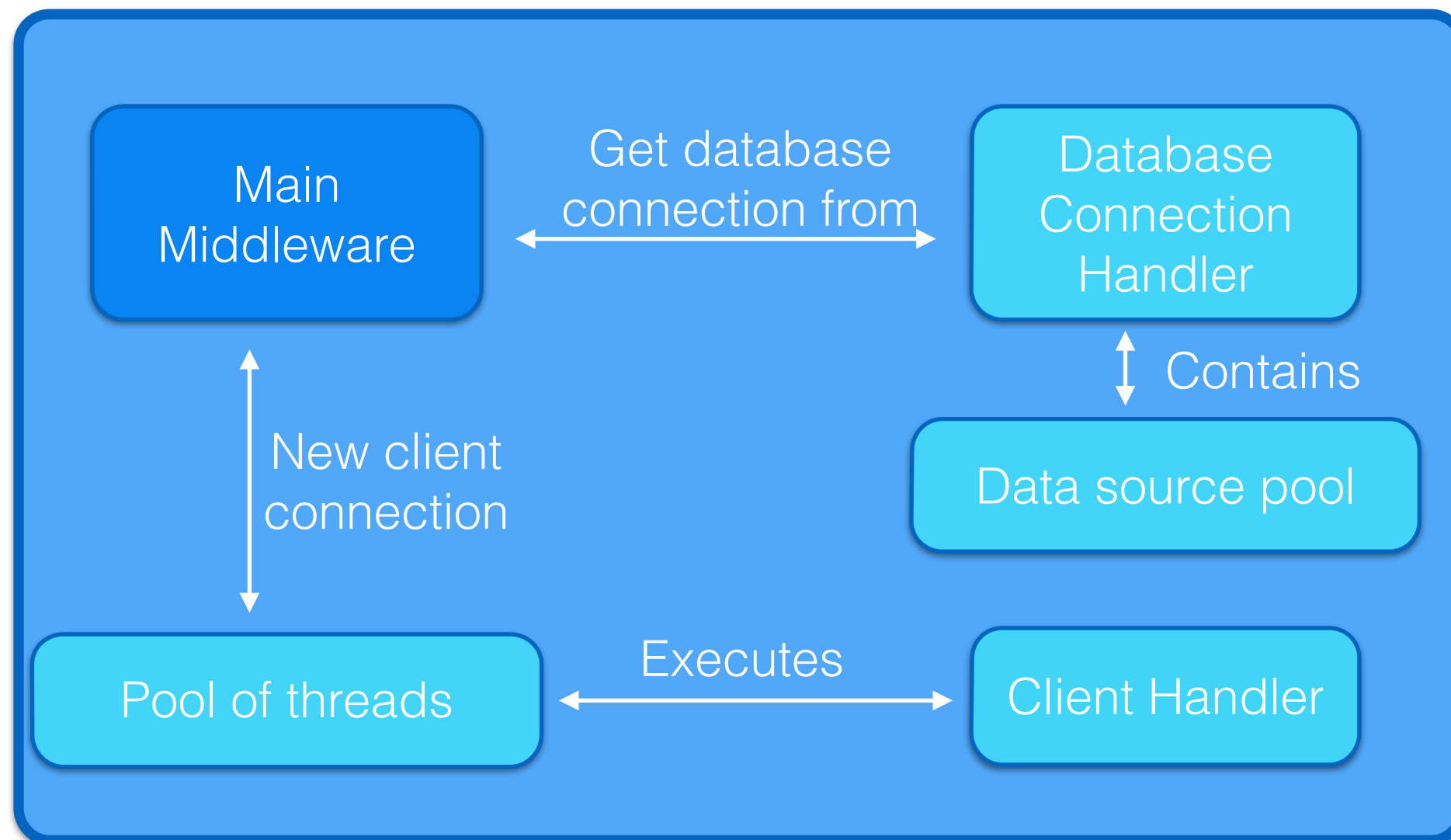
# Messaging System

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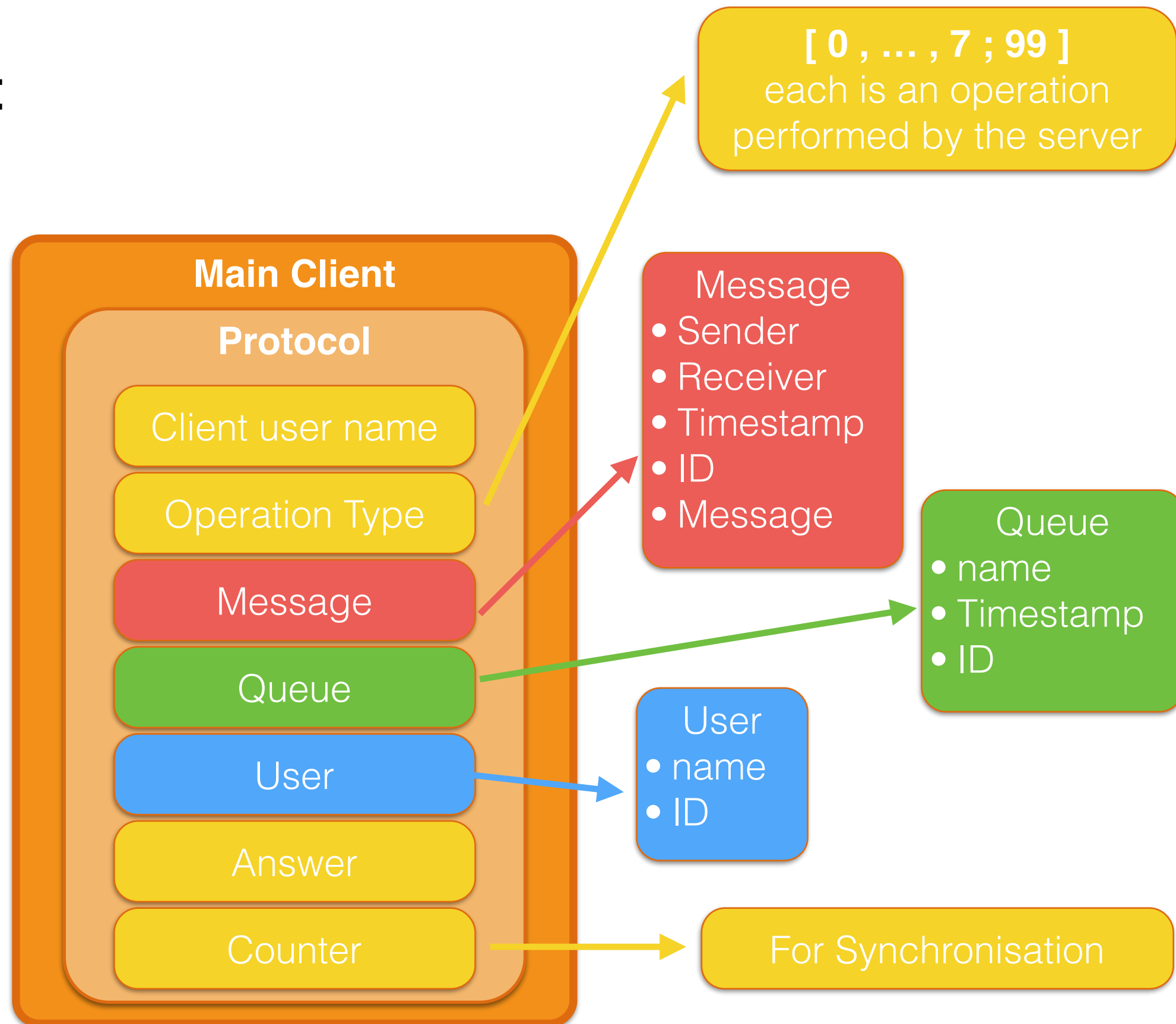
Advanced Systems Lab

01.10.2015

# Middleware



# Client



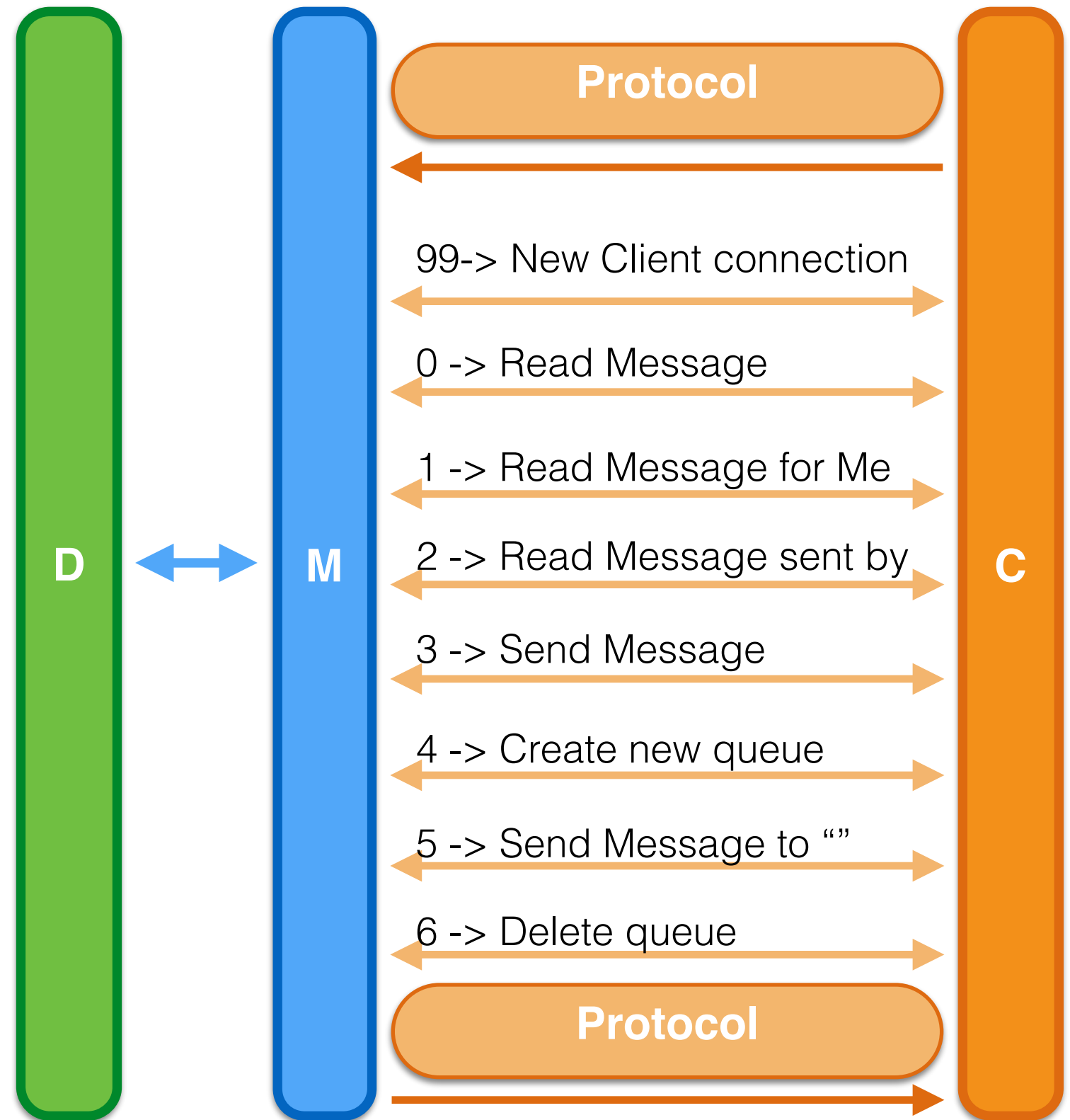
# System Interaction

## Granted Information in Middleware

- Database info — provided during initialisation
  - User
  - Password
  - Database
  - Address
  - # of connections for DB
- Listening Port
- # of supporting clients

## Granted Information in Client

- Server address and port
- User name
- Duration of execution
- # of operation — optional
- Waiting time between operation — optional

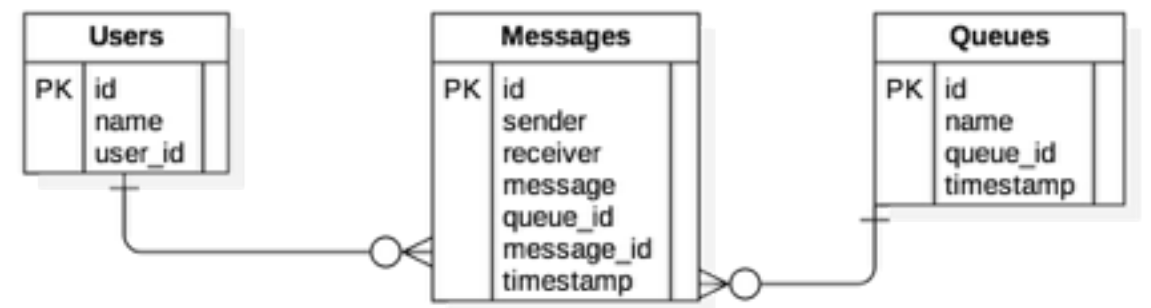


# Database

## Database Functions

- delete\_messages\_from\_queue(queue\_id)
- delete\_queue(queue\_name)
- delete\_user(user\_name)
- get\_message(receiver\_name)
- get\_message\_from(receiver\_n, sender\_n)
- get\_queue\_id(queue\_name)
- get\_user\_id(user\_name)
- insert\_new\_queue(name, id, timestamp)
- insert\_new\_user(name, id)
- insert\_new\_message(message, sender, receiver, id, timestamp, queue\_id)

## ER Diagram



## Index

- User.index\_in\_user\_id
- Messages.index\_in\_queue\_id
- Messages.index\_in\_message\_id
- Messages.index\_in\_receiver
- Queues.index\_in\_queue\_id