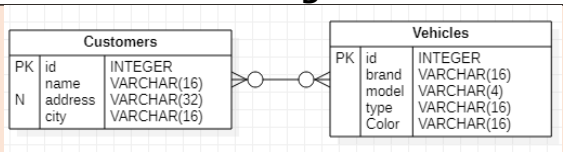
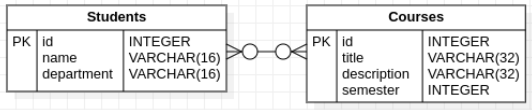
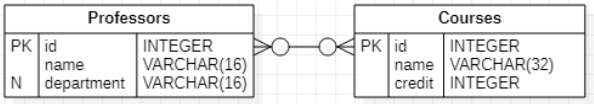
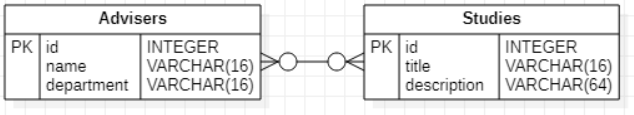
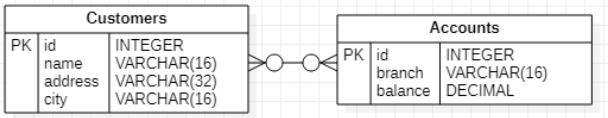
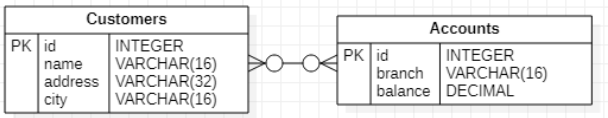
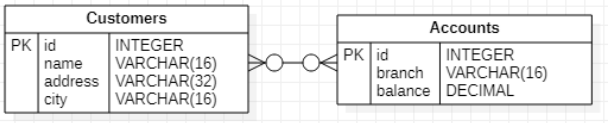
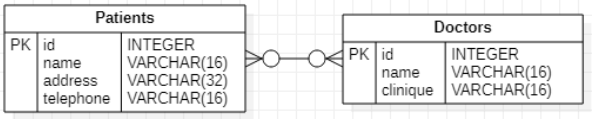
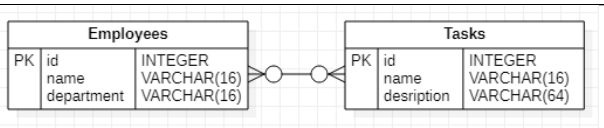
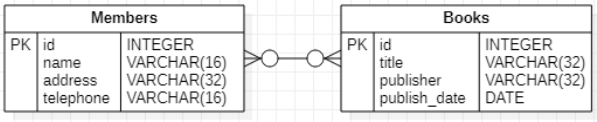
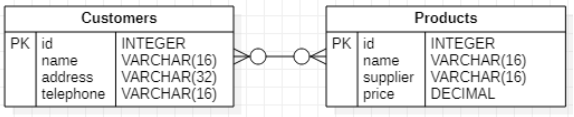
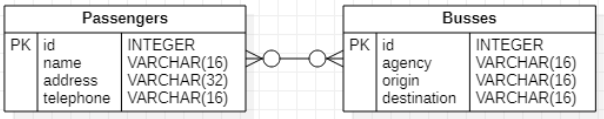
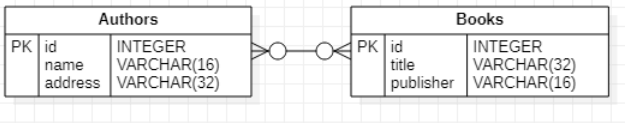
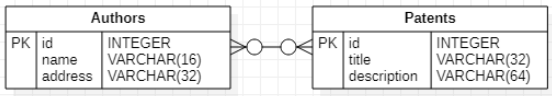
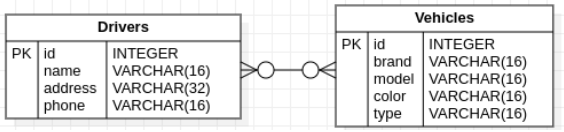
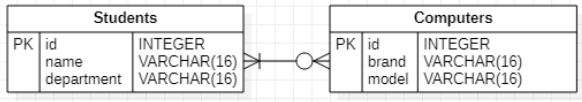
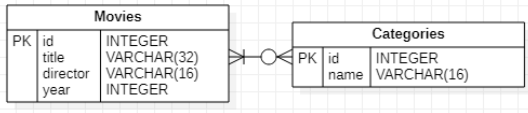
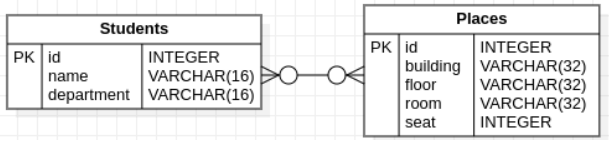
SWE212: DISTRIBUTED INFORMATION MANAGEMENT SYSTEMS (DIMS)

Project Studies 2024

You will work on the projects in groups of 4 or 5. Each group will choose a topic from the list given below and will develop a distributed information system on the same topic until the end of the semester. Project work will be evaluated 3 times during the semester, and evaluations will be made in the classroom after a 10-minute presentation of the group.

We will make an exemplary project that will form the basis of your project together in the classroom, what is expected from you is to apply what you have learned on your project.

No	Project description	E-R Diagram
	Car rental: In class example, Customers-Vehicles assignment Join: Rentals	 Join: Rentals (Rent date, Return date, Is returned)
1	**School management-1**: Students – Classes assignment Join: Enrollments	Join:  Enrollments (Class Date, Tuition, Attendance)
2	**School management-2**: Professors - Courses assignment Join: Teaches	 Join: Teaches (Student count, Start date, Ending date)
3	**School management-3**: Advisers - Studies assignment Join: Supervises	 Join: Supervises (Student, Performance)
4	**Banking management-1**: Customers - Accounts assignment Join: Depositors	 Join: Depositors (Date, Amount)
5	**Banking management-2**: Customers - Accounts assignment Join: Withdrawals	 Join: Withdrawals (Date, Amount), check amount not below zero!
6	**Banking management-3**: Customers - Accounts assignment Join: Loans	 Join: Loans (Date, Amount), check loan not above a limit!
7	**Medical management**: Patients - Doctors assignment Join: Appointments	 Join: Appointments (App. Date, App. Time)

8	**Task management**: Employee - Tasks assignment Join: Taskers	 Join: Taskers (Task date, Task time)
9	**Library management**: Members - Books assignment Join: Borrowers	 Join: Borrowers (Due date, Return date, Issue)
10	**Online shopping**: Customers - Products assignment Join: Orders	 Join: Orders (Date, City, Delivery status)
11	**Travel management**: Passengers - Buses assignment Join: Travels	 Join: Travels (Date, Time, Price, Seat)
12	**Publish management**: Authors-Books assignment Join: Publishes	 Join: Publishes (Date, Edition)
13	**Patent management**: Authors - Patents assignment Join: Certifications	 Join: Certifications (Issue date, Duration in year)
14	**Driver management**: Drivers-Vehicles assignment Join: Assignments	Join:  Assignments (Assigned Date, Return date)
15	**Computer checkout management**: Students – Computers Join: Reservations	 Join: Reservations (Date, Duration)
16	**Movie management**: Movies – Categories Join: Classifications	 Join: Classifications (Date)
17	**Library place management**: Students – places Join: Reservation	 Join: Reservation (Date, Duration)