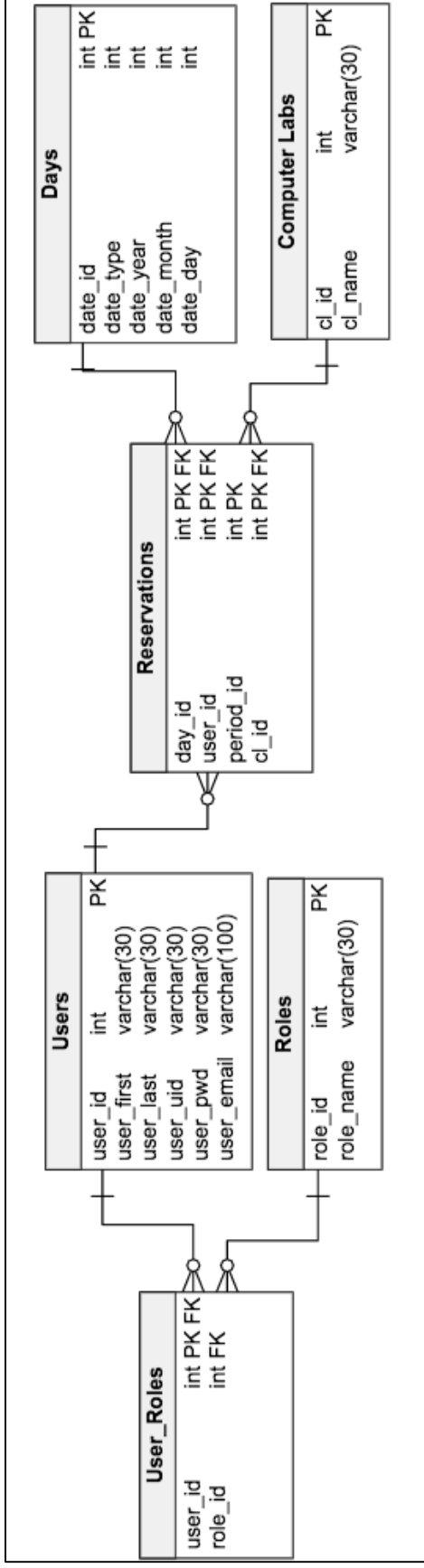


IB Computer Science IA: Criterion B Design: Entity Relationship Diagram for Database



Rationale for database design:

To ensure modularity requested by the administrators, I established a cohesive design, in which the number of computer labs, day

scheduling, roles (levels of access), and users are separate. Note the multiple primary keys represent a composite primary key.

Trade-offs:

- More difficult and tedious to add the days of the school year to the system. Connecting to the calendar will be done if possible, but likely part of the backlog.
- More difficult to access user statistics and collect statistics through reservation system. It would be easier if I just stored all labs and days within one table for statistics collection, however there would be problems in modularity.