

1. **Users**
  - Attributes: `user_id` (PK), `full_name`, `email`, `password_hash`, `role`
  - Description: зберігає загальні дані про користувачів (адміністраторів, викладачів, студентів).
2. **Teachers**
  - Attributes: `teacher_id` (PK), `user_id` (FK), `department`, `position`, `email`
  - Relationships:
    - *1 User → 1 Teacher* (спадкування ролі користувача)
    - *1 Teacher teaches many Subjects*
3. **Students**
  - Attributes: `student_id` (PK), `user_id` (FK), `group_id` (FK), `faculty`
  - Relationships:
    - *1 User → 1 Student*
    - *1 Group → many Students*
4. **Groups**
  - Attributes: `group_id` (PK), `name`, `amount_students`, `faculty`
  - Relationships:
    - *1 Group has many Students*
    - *1 Group has many Schedules*
5. **Subjects**
  - Attributes: `subject_id` (PK), `name`, `credits`, `semester`
  - Relationships:
    - *1 Teacher teaches many Subjects*
    - *1 Subject appears in many Schedules*
6. **Audience**
  - Attributes: `audience_id` (PK), `number`, `corps`, `capacity`, `has_projector`, `has_computers`
  - Relationships:
    - *1 Auditorium hosts many Schedules*
7. **Schedules**
  - Attributes: `schedule_id` (PK), `subject_id` (FK), `teacher_id` (FK), `group_id` (FK), `audience_id` (FK), `day`, `start_time`, `end_time`, `lesson_type`
  - Relationships:
    - *N:1 Subject*
    - *N:1 Teacher*
    - *N:1 Group*
    - *N:1 Auditorium*
8. **RoomSearches**
  - Attributes: `search_id` (PK), `user_id` (FK), `corps`, `type`, `capacity`, `has_computers`, `has_projector`
  - Relationships:
    - *1 User → many RoomSearches*

### **Main Relationships (with cardinalities):**

- **User – Teacher / Student** → 1:1
- **Teacher – Subject** → 1:N
- **Subject – Schedule** → 1:N
- **Group – Student** → 1:N
- **Group – Schedule** → 1:N
- **Audience – Schedule** → 1:N
- **User – RoomSearch** → 1:N
- **Teacher – Schedule** → 1:N
- **RoomSearch – Audience** → 1:N
- **Teacher – TeachingAssignment** → 1:N