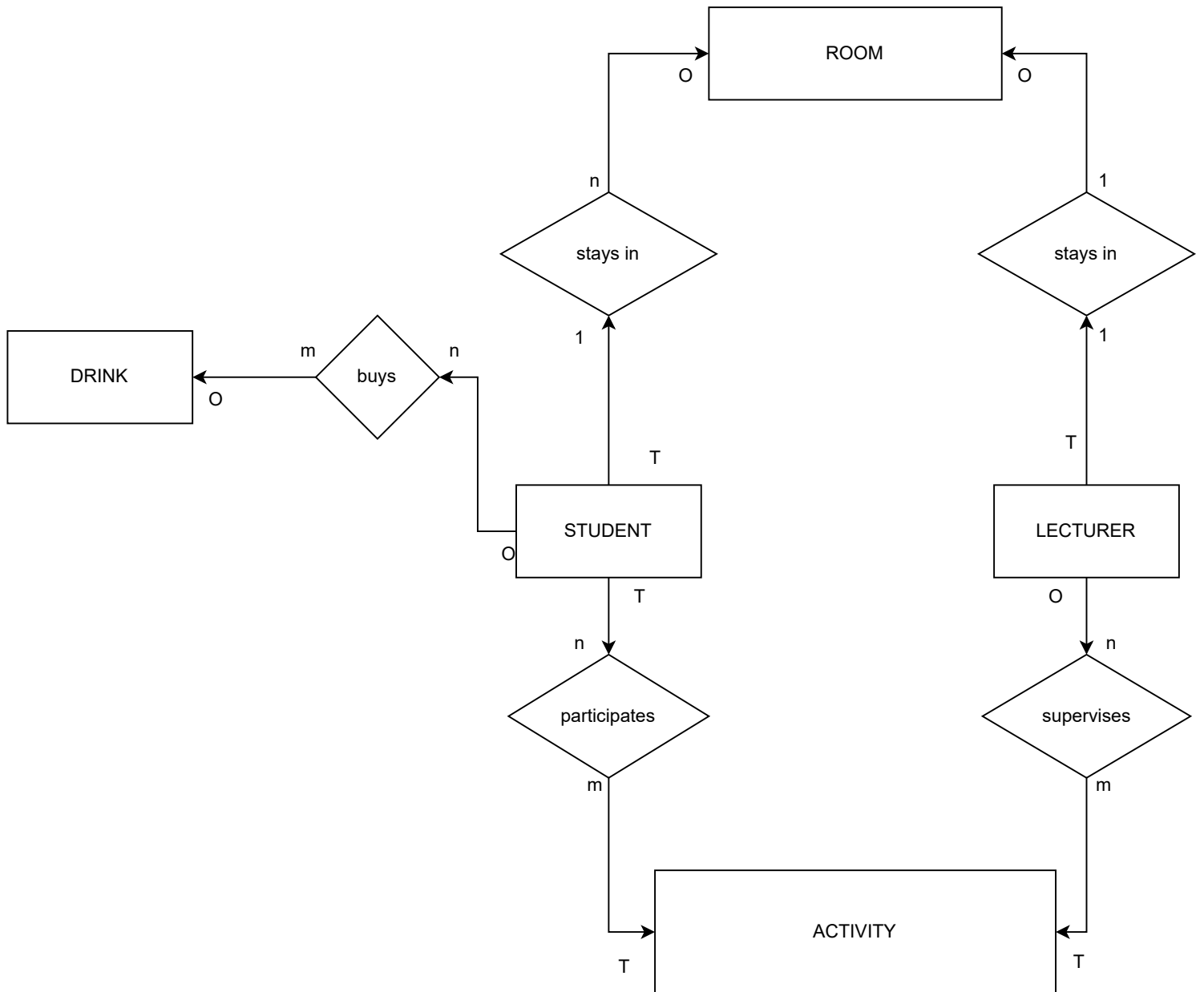


Database Project



Attribute list:

STUDENT : student_number, first_name, second_name,
telephone_number, class

LECTURER: lecturerID, first_name, second_name, age,
telephone_number

ROOM: room_code, floor, building, number_beds, type_room

ACTIVITY: activityID, day, start_time, end_time, type_activity

DRINK : drinkID, Name, price, if_alcoholic

stays in:

participates:

supervises:

buys: amount

Relational model:

STUDENT : (student_number, first_name, second_name, telephone_number, class, *room*)
foreign key "room" refers to room_code in ROOM

LECTURER: (lecturerID, first_name, second_name, age, telephone_number, *room*)
foreign key "room" refers to room_code in ROOM

ROOM: (room_code, floor, building, number_beds, type_room)

ACTIVITY: (activityID, day, start_time, end_time, type_activity)

DRINK : (drinkID, Name, price, if_alcoholic)

participates: (*student*, *activity*)

foreign key "student" refers to student_number in STUDENT

foreign key "activity" refers to activityID in ACTIVITY

supervises: (*lecturerID*, *activityID*)

foreign key "student" refers to student_number in STUDENT

foreign key "activity" refers to activityID in ACTIVITY

buys: (*student_number*, *drinkID*, amount)

foreign key "student" refers to student_number in STUDENT

foreign key "activity" refers to activityID in ACTIVITY

Multiplicity:

A particular student stays in one room
In a particular room stay multiple students
A particular lecture stays in one room
In a particular room stays one lecturer
A particular student can buy multiple drinks
A particular drink can be bought by multiple students
A particular student participates in multiple activities
A particular activity has multiple students participating
A particular lecturer supervises multiple activities
A particular activity is supervised by multiple lecturer

Totality:

All students stay in a room
Not all rooms have students staying in those rooms
Not every student buys a drink
A drink does not have to be bought by every student
Every lecturer stays in a room
Not every room has a lecturer
All students participate in activities
All activities have students participating in them
Not all lecturers supervise activities
All activities are supervised by a lecturer