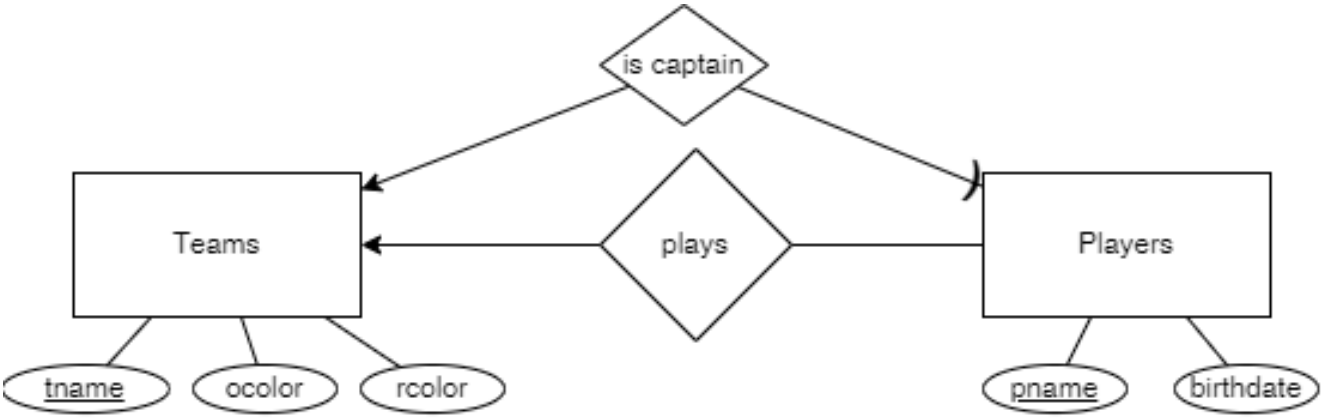
Зад 1. E/R модел



Релационен модел

Teams (tname, ocolor, rcolor, pname_captain)

Players (pname, birthdate, tname)

~~**Plays (tname, pname)**~~ **X**

~~**isCaptain (tname, pname)**~~ **X**

Primary keys:

Teams: PK (tname)

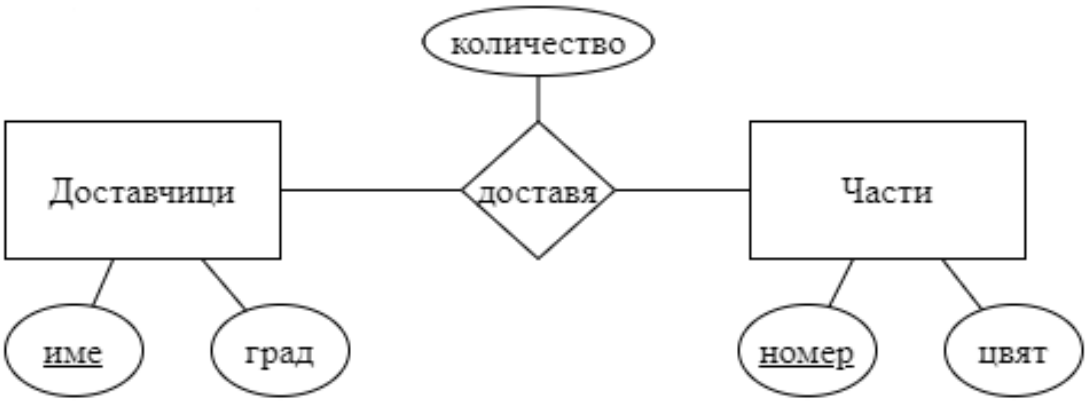
Players: PK (pname)

Foreign keys:

Teams: FK (pname_captain) -> Players(pname)

Players: FK (tname) -> Teams (tname)

Зад 2. E/R модел



Релационен модел

Suppliers (name, city)

Parts (number, color)

Supply (supplier_name, part_number, quantity)

Primary keys:

Suppliers: PK(name)

Parts: PK (number)

Supply: PK (supplier_name, part_number)

Foreign keys:

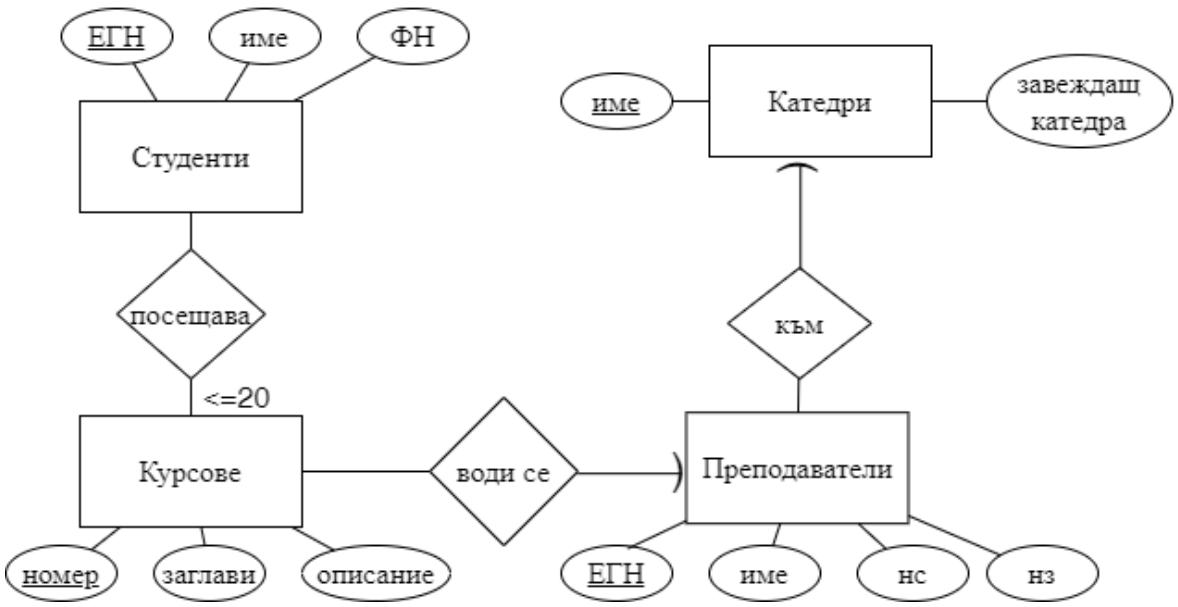
Supply: FK (supplier_name) -> Suppliers (name)

Supply: FK (part_number) -> Parts (number)

Check constraint:

Supply: CK (quantity > 0)

Зад 3. E/R модел



Релационен модел

Students (EGN, name, FN)

Courses (number, title, desc, teacher_EGN)

Departments (name, chief_teacher)

Teachers (EGN, name, title, degree, department_name)

Enroll (course_number, student_EGN)

~~**Lead (EGN_teacher, course_number)**~~ **X**

~~**From (EGN_teacher, department_name)**~~ **X**

Primary keys:

Students: PK (EGN)

Courses: PK (number)

Departments: PK (name)

Teachers: PK (EGN)

Enroll: PK (course_number, student_EGN)

Foreign keys:

Courses: FK (teacher_EGN) -> Teachers (EGN)

Departments: FK (chief_teacher) -> Teachers (EGN)

Teachers: FK (department_name) -> Departments (name)