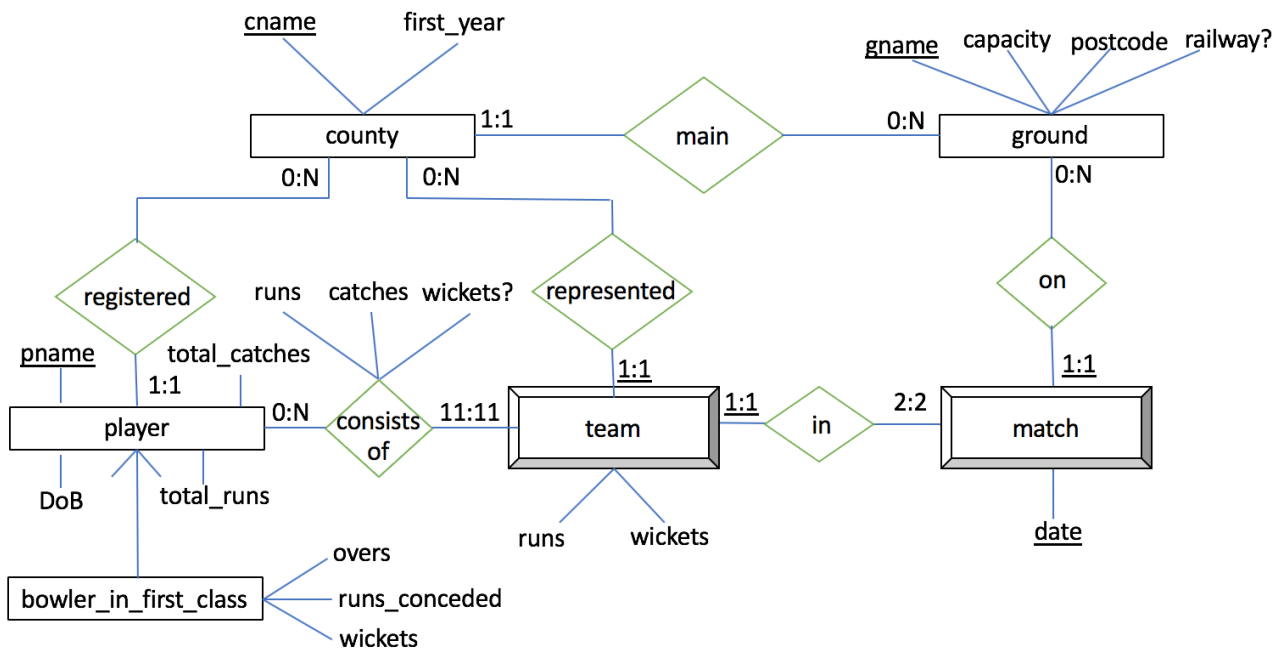# CO526 Databases Course Work 2: ER Modelling

Konstantinos Ntolkeras

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1   Design an ER^{ADHKLMNOSVW} Schema to represent the UoD

2   Map the ER schema into a relational schema

ground(<u>gname</u>, capacity, postcode, railway?)
county(<u>cname</u>, first_year, gname)
county(gname) $\overset{fk}{\Longrightarrow}$ ground(gname)
match(<u>date</u>, <u>gname</u>)
match(gname) $\overset{fk}{\Longrightarrow}$ ground(gname)
team(<u>date</u>, <u>gname</u>, <u>cname</u>, runs, wickets)
team(gname, date) $\overset{fk}{\Longrightarrow}$ match(gname, date)
team(cname) $\overset{fk}{\Longrightarrow}$ county(cname)
consists_of(<u>pname</u>, <u>date</u>, <u>gname</u>, <u>cname</u>, runs, catches, wickets?)
consists_of(pname) $\overset{fk}{\Longrightarrow}$ player(pname)
consists_of(date, gname, cname) $\overset{fk}{\Longrightarrow}$ team(date, gname, cname)
player(<u>pname</u>, DoB, total_runs, total_catches, cname)
player(cname) $\overset{fk}{\Longrightarrow}$ county(cname)
bowler_in_first_class(<u>pname</u>, overs, runs_conceded, wickets)
bowler_in_first_class(pname) $\overset{fk}{\Longrightarrow}$ player(pname)