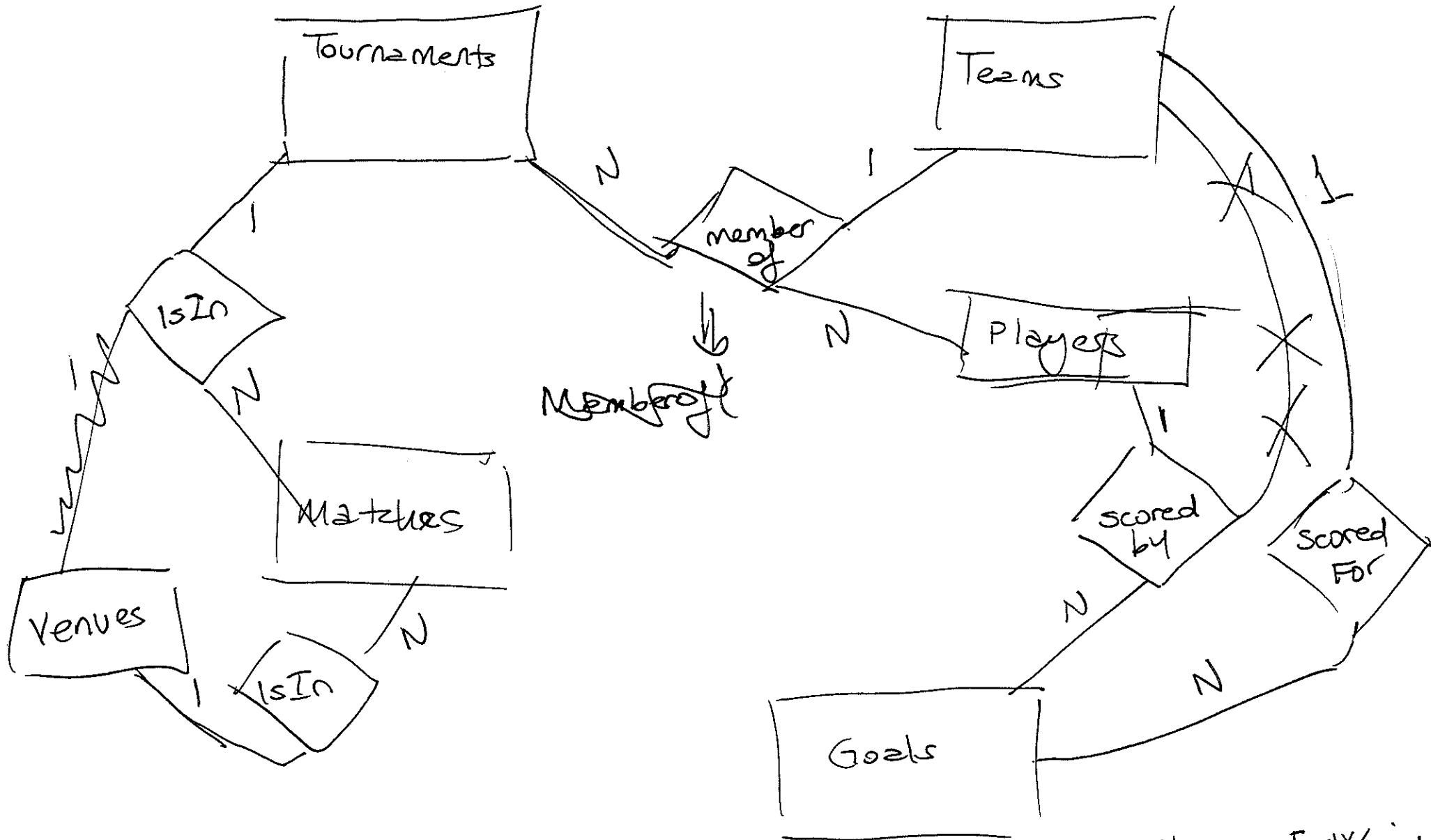
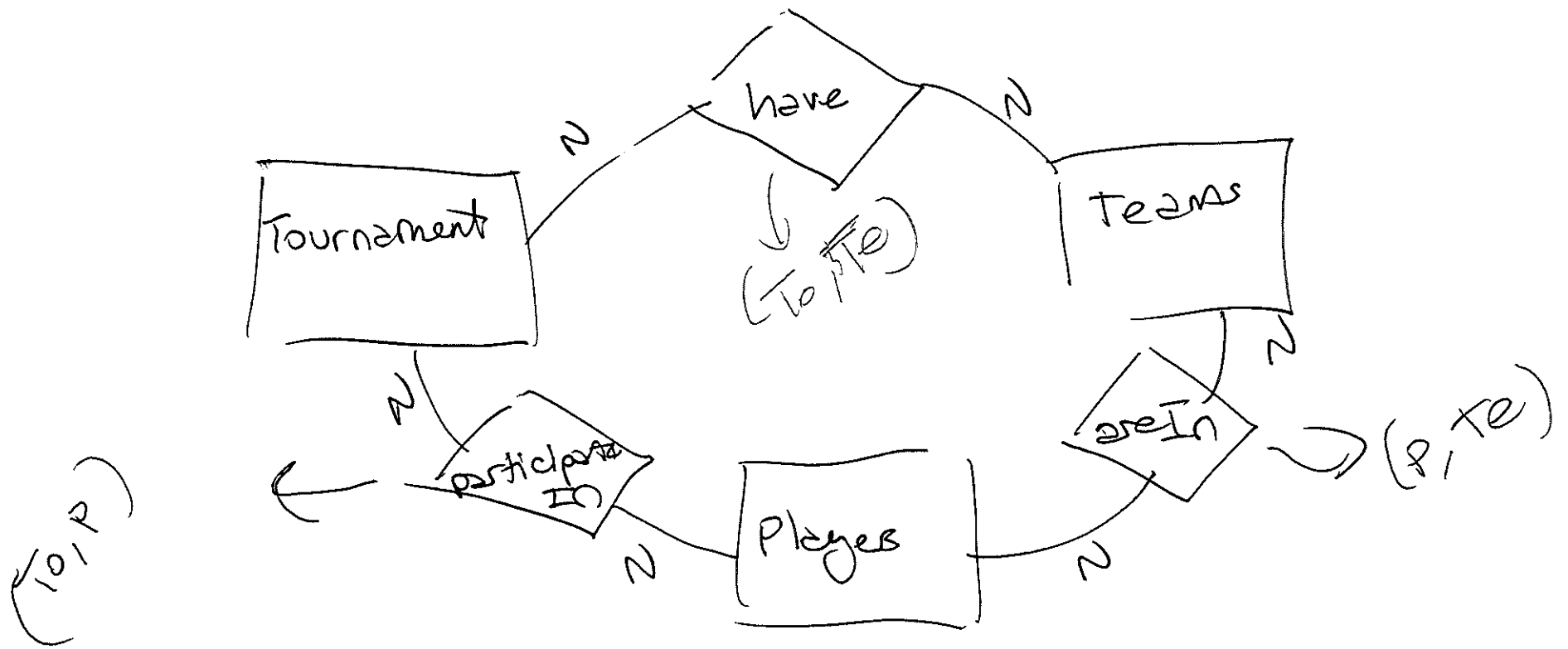


player tournament → team



Goal → Player For Which Team
Goal → Player
Goal → Team



(To, Te, P)

$To \ P \rightarrow Te$

Decomposition:

(To, P)

(To, Te)

(P, Te)

1	T	P
0	t1	p
0	t	p2
03	t	p

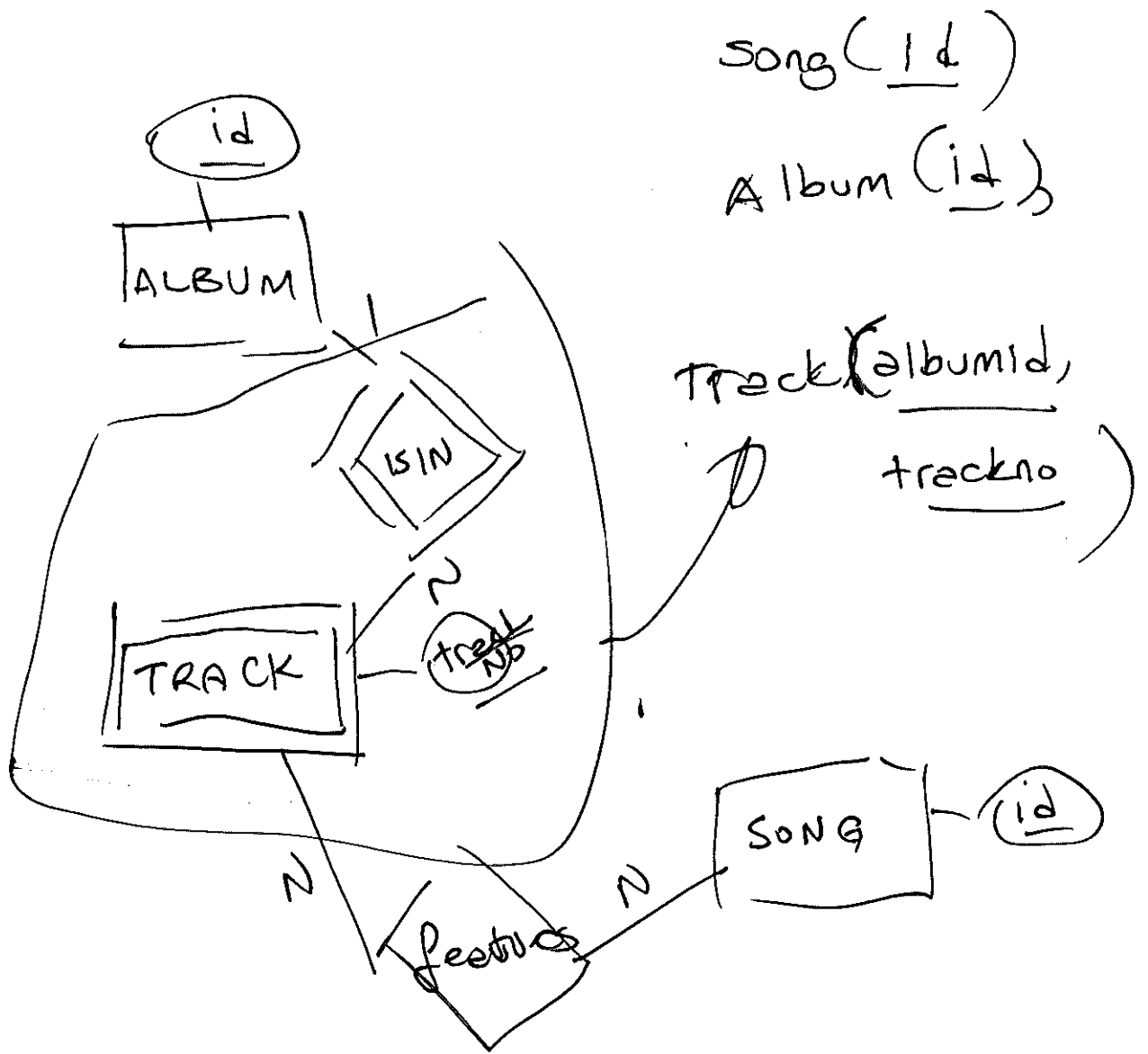
lossy decomposition $P \rightarrow T$

Member of (Tyear, PlayerName, CountryName)

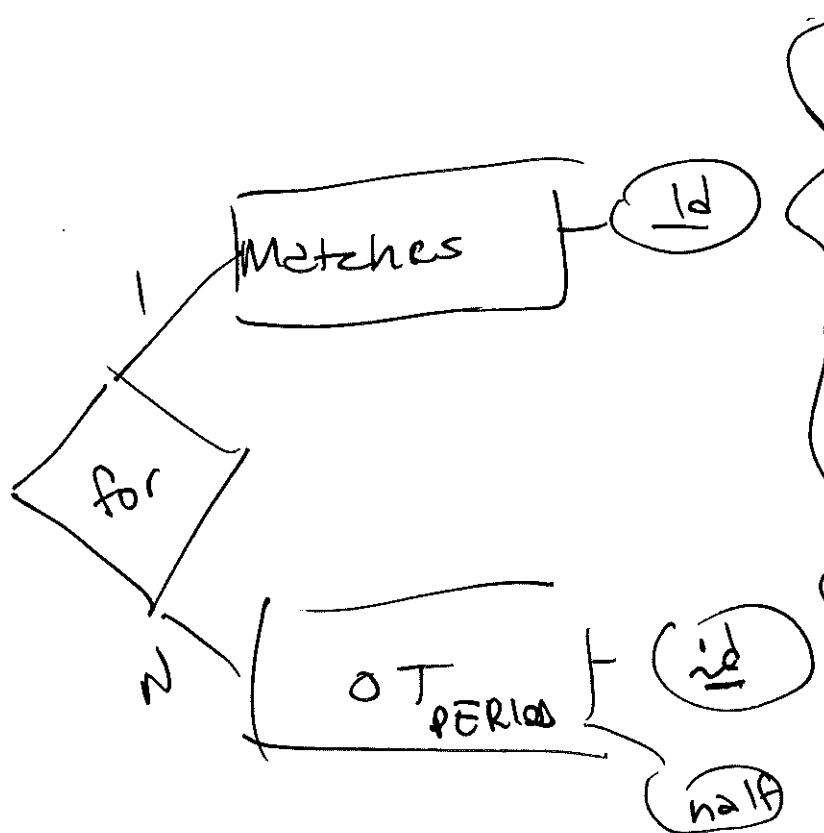
Tyear PlayerName → CountryName

IsIn (MatchId, Tournament Year)

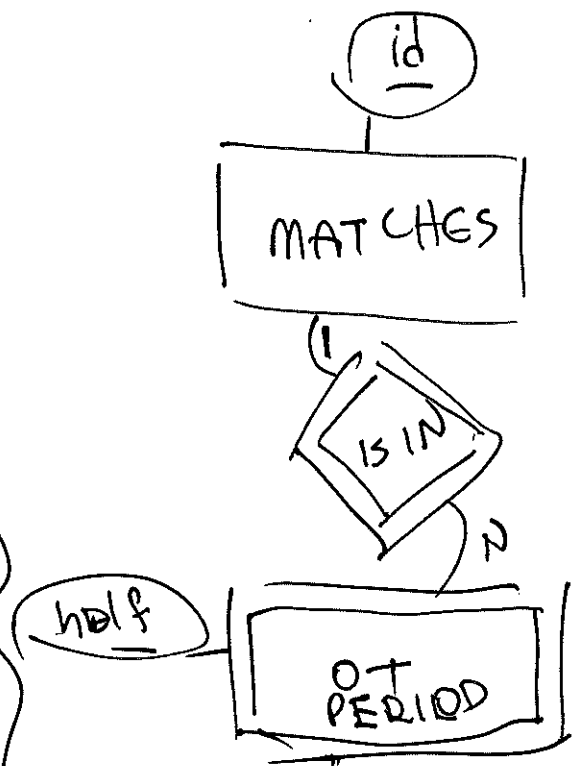
IsIn2 (MatchId, Stadium, Country)



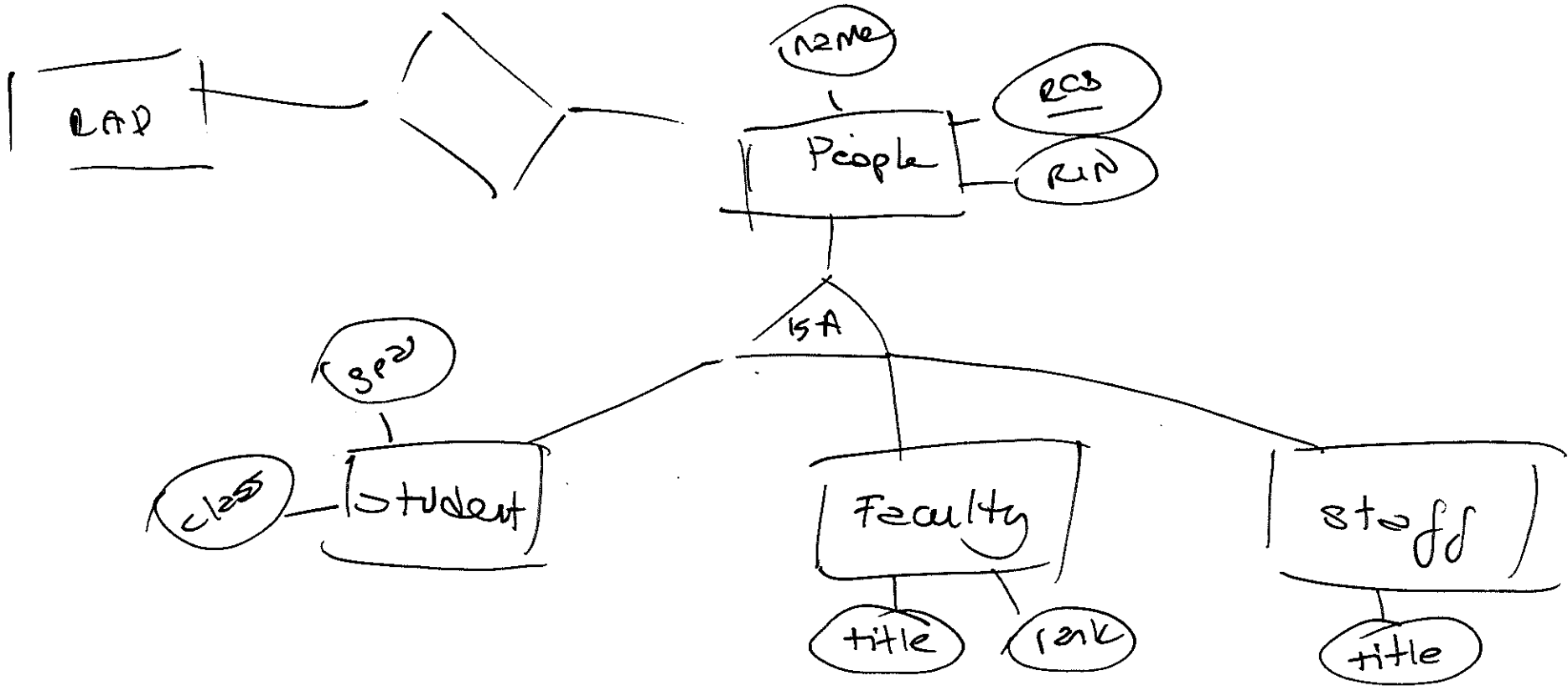
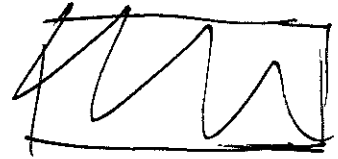
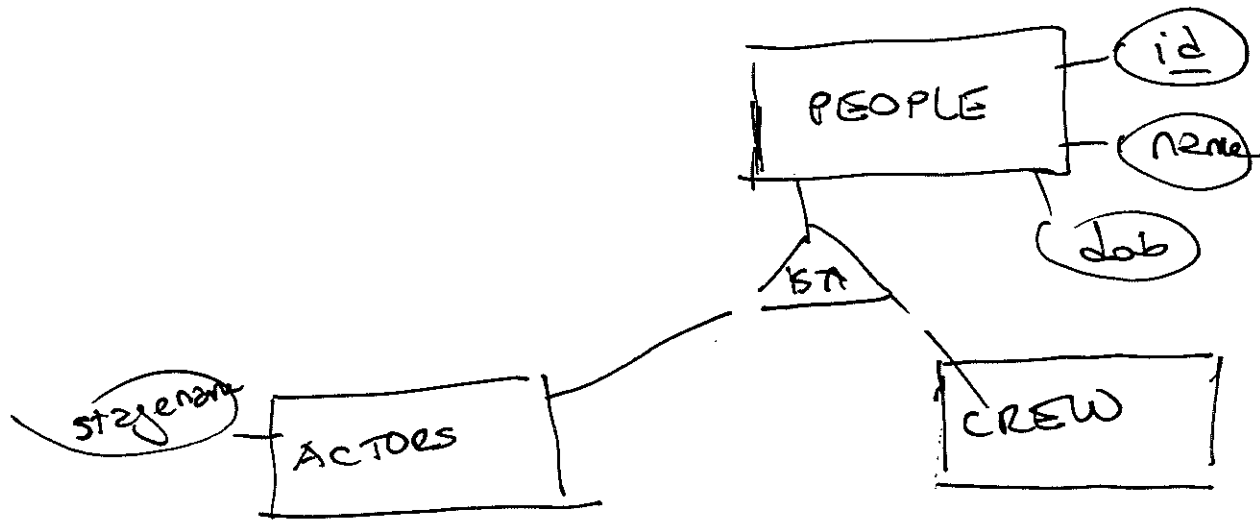
Features(songId, albumId, trackNo)

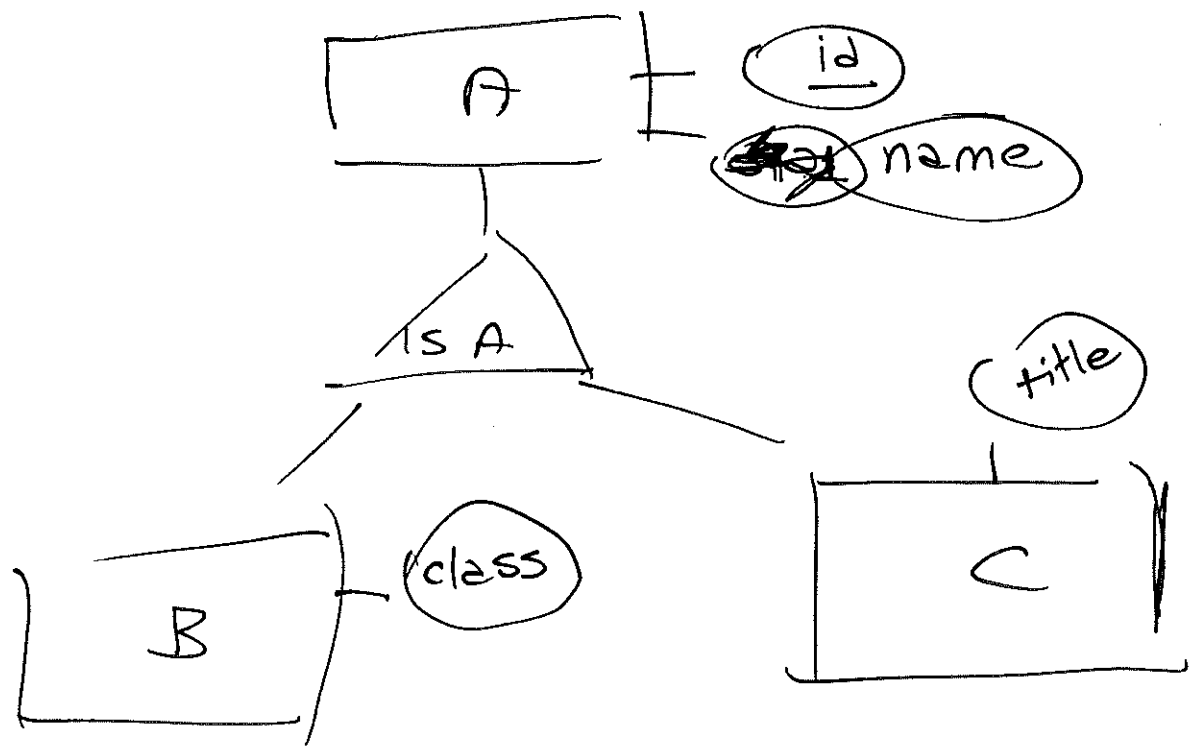


matches(id)
 OTPeriod(id, half, matchId)



matches(id)
 OTPeriod(matchId, half)





①

$A(\underline{id}, name)$
 $B(\underline{id}, name, class)$
 $C(\underline{id}, name, title)$

} may repeat info if not disjoint

②

$A(\underline{id}, name)$
 $B(\underline{id}, class)$
 $C(\underline{id}, title)$

for all A, B & C

} needs more joins

③

$ABC(\underline{id}, name, class, isB, title, isC)$

But may have empty values for isB