STUDENT

PK	student_num
	first_name
	last_name

DEPARTMENT

PK	deparment_id
UK	department_name

CLUB

PK	club_code
UK	club_name
FK	department_id
FK	supervisor_id

TEACHER

PK	teacher_id
	first_name
	last_name

un-identifying relation

recruit
be a member of

un-identifying relation

a part of
parent of

supervise
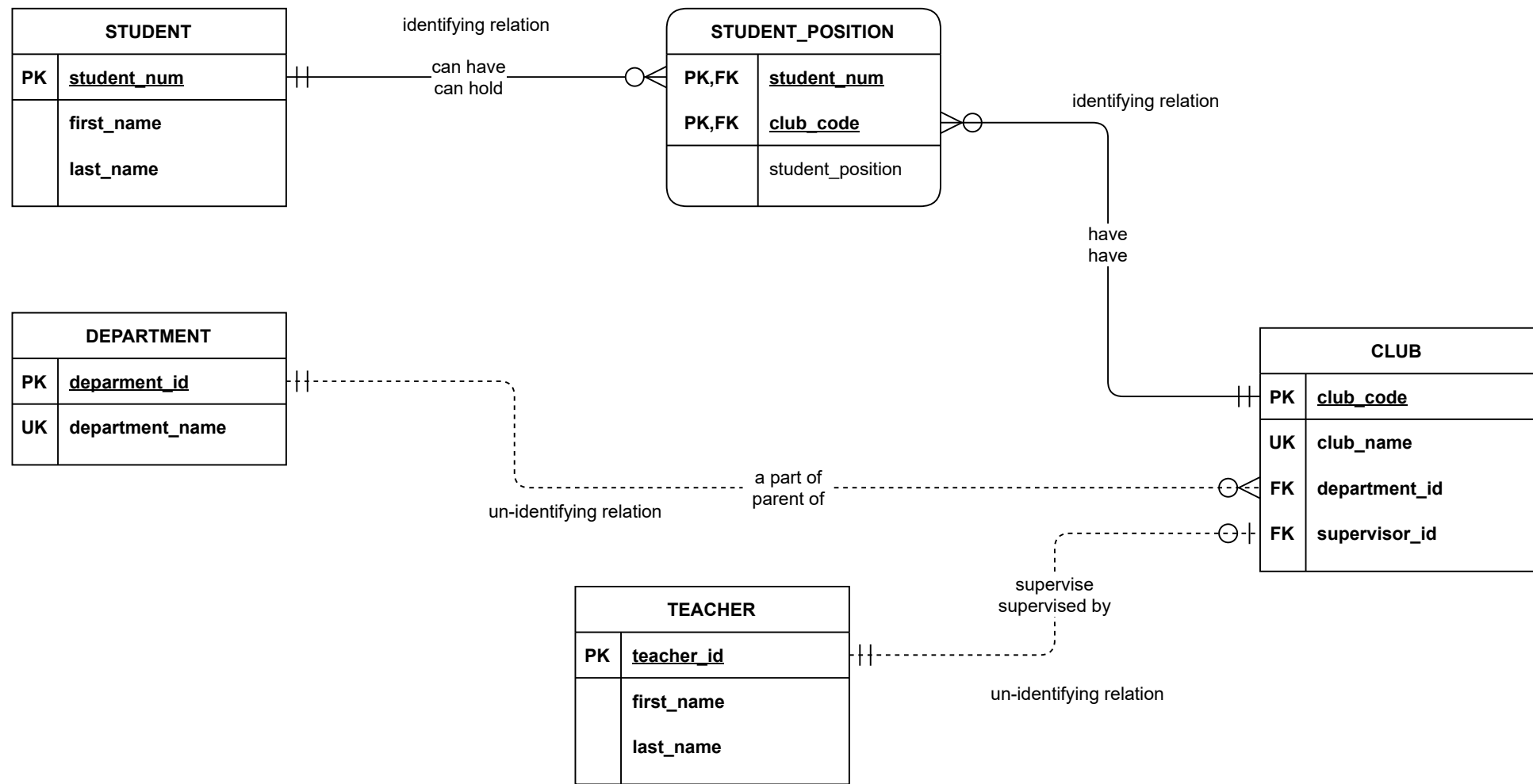supervised by

un-identifying relation

Each DEPARTMENT may have zero, one or multiple CLUBs
Each CLUB must have one and only one DEPARTMENT

Each CLUB must be supervised by one and only one TEACHER
Each TEACHER may supervise zero or one CLUB

Each STUDENT can join zero, one or multiple CLUBs
Each CLUB can recruit zero, one or multiple STUDENTs

STUDENT

PK	student_num
	first_name
	last_name

identifying relation

can have
can hold

STUDENT_POSITION

PK,FK	student_num
PK,FK	club_code
	student_position

identifying relation

have
have

DEPARTMENT

PK	deparment_id
UK	department_name

CLUB

PK	club_code
UK	club_name
FK	department_id
FK	supervisor_id

a part of
parent of

un-identifying relation

supervise
supervised by

TEACHER

PK	teacher_id
	first_name
	last_name

un-identifying relation

Each DEPARTMENT may have zero, one or multiple CLUBs
Each CLUB must have one and only one DEPARTMENT

Each CLUB must be supervised by one and only one TEACHER
Each TEACHER may supervise zero or one CLUB

Each STUDENT can have zero, one or multiple STUDENT_POSITIONs
Each STUDENT_POSITION can depict one and only one STUDENT

Each STUDENT_POSITION can have one and only one CLUB
Each CLUB can have zero, one or multiple STUDENT_POSITIONs