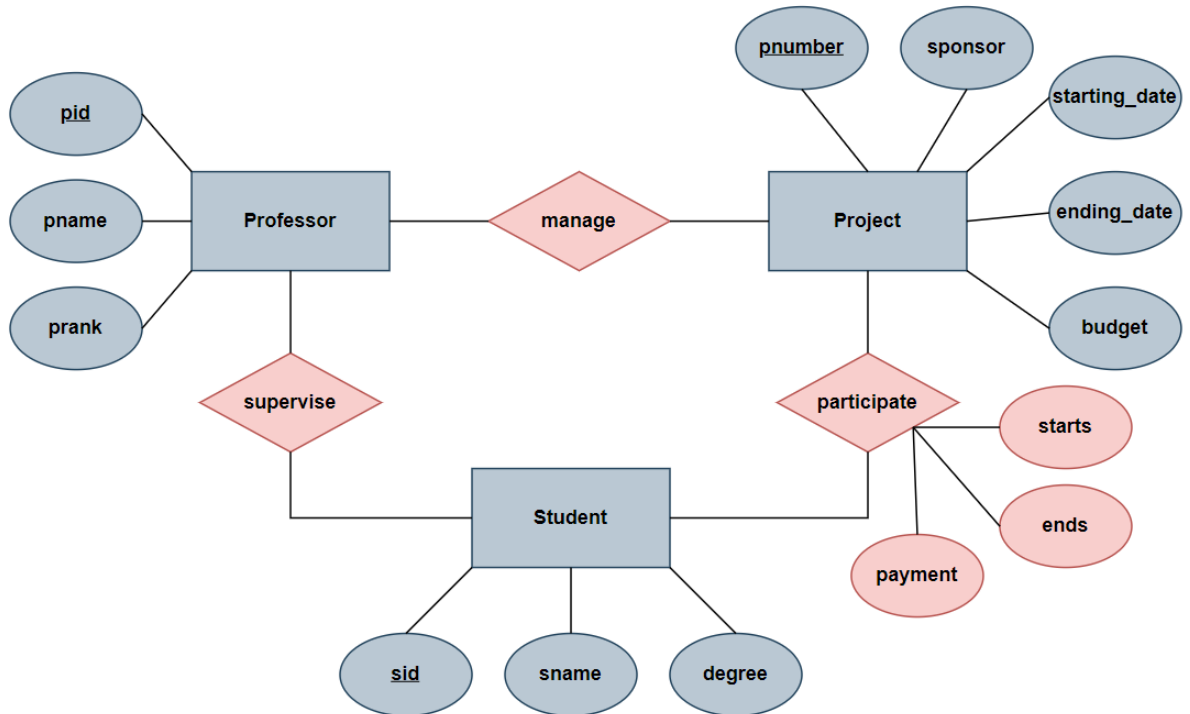# 107062313_assignment1_report

- Problem1 : ER Model

- Problem1 : Relational Model

```sql
CREATE TABLE Professor (
  pid INTEGER,
  pname VARCHAR(20),
  prank INTEGER,        prank VARCHAR(20),
  PRIMARY KEY (pid)
);

CREATE TABLE Student (
  sid INTEGER,
  sname VARCHAR(20),
  degree VARCHAR(20),
  pid INTEGER,
  PRIMARY KEY (sid),
  FOREIGN KEY (pid) REFERENCES Professor
);

CREATE TABLE Project (
  pnumber INTEGER,
  sponsor VARCHAR(20),
  starting_date DATE,
  ending_date DATE,
  budget REAL,
  pid INTEGER,
  PRIMARY KEY (pnumber),
  FOREIGN KEY (pid) REFERENCES Professor
);

CREATE TABLE participate(
  starts DATE,
  ends DATE,
  payment REAL,
  sid INTEGER,
  pnumber INTEGER,
  PRIMARY KEY (sid, pnumber),
  FOREIGN KEY (sid) REFERENCES Student,
  FOREIGN KEY (pnumber) REFERENCES Project
);
```

- Problem2

forum_name	popularity
Gossiping	100
Joke	23

forum_name	post_id	title	article
Gossiping	131	Girlfriend	How can I get girlfriend ?
Gossiping	252	Firends	I don't have a friend…
Joke	46	Knock	Knock! Knock! ...
Joke	151	Santa Claus	Hold! Hold! Hold!

forum_name	post_id	reply_id	reply
Gossiping	131	1 *1*	"Haha"
Gossiping	131	2 *2*	"I don't know"
Gossiping	252	3 *1*	"Haha"
Gossiping	252	4 *2*	"I can be"
Gossiping	252	5 *3*	"QQ"
Joke	46	6	"Then?"
Joke	46	7	"What's the point ?"
Joke	151	8	"XDD"