Q1 _____

	Primary Key	Candidate Key	Super Key
payment_id	х	х	х
customer_id			х
payment_id, customer_id		х	х
amount, payment_date			х
payment_id, staff_id		х	х

O2 _____

```
CREATE TABLE Team (
  name VARCHAR(255) NOT NULL,
  PRIMARY KEY (name)
);
CREATE TABLE SoccerPlayer (
  spid INTEGER AUTO_INCREMENT,
  name VARCHAR(255) NOT NULL,
  teamName VARCHAR(255) NOT NULL,
  PRIMARY KEY (spid),
  FOREIGN KEY (teamName) REFERENCES Team(name)
);
CREATE TABLE Game (
  gid INTEGER AUTO INCREMENT,
  firstTeam VARCHAR(255) NOT NULL,
  secondTeam VARCHAR(255) NOT NULL,
  firstScore INTEGER UNSIGNED NOT NULL,
  secondScore INTEGER UNSIGNED NOT NULL,
  PRIMARY KEY (gid),
  FOREIGN KEY (firstTeam) REFERENCES Team(name),
  FOREIGN KEY (secondTeam) REFERENCES Team(name)
);
CREATE TABLE Participate (
  pid INTEGER AUTO_INCREMENT,
  gid INTEGER NOT NULL,
  spid INTEGER NOT NULL,
  playerName VARCHAR(255) NOT NULL,
```

```
goalsScored INTEGER DEFAULT 0,
  PRIMARY KEY (pid),
       FOREIGN KEY (gid) REFERENCES Game(gid),
       FOREIGN KEY (spid) REFERENCES SoccerPlayer(spid)
);
INSERT INTO Team (name) VALUES ("Spain");
INSERT INTO Team (name) VALUES ("Mexico");
INSERT INTO Team (name) VALUES ("USA");
INSERT INTO Team (name) VALUES ("Cal Poly");
INSERT INTO SoccerPlayer (name, teamName) VALUES ("Sergio Ramos", "Spain");
INSERT INTO SoccerPlayer (name, teamName) VALUES ("David de Gea", "Spain");
INSERT INTO SoccerPlayer (name, teamName) VALUES ("Gerard Moreno", "Spain");
INSERT INTO Game (firstTeam, secondTeam, firstScore, secondScore) VALUES ("Spain", "Mexico", 3,
INSERT INTO Game (firstTeam, secondTeam, firstScore, secondScore) VALUES ("Spain", "USA", 3, 1);
INSERT INTO Game (firstTeam, secondTeam, firstScore, secondScore) VALUES ("Mexico", "USA", 1, 2);
INSERT INTO Game (firstTeam, secondTeam, firstScore, secondScore) VALUES ("Cal Poly", "USA", 4,
2);
INSERT INTO Game (firstTeam, secondTeam, firstScore, secondScore) VALUES ("Spain", "Cal Poly", 1,
INSERT INTO Participate (gid, spid, playerName, goalsScored) VALUES (1, 3, "Gerard Moreno", 3);
INSERT INTO Participate (gid, spid, playerName, goalsScored) VALUES (2, 3, "Sergio Ramos", 1);
INSERT INTO Participate (gid, spid, playerName, goalsScored) VALUES (3, 3, "David de Gea", 3);
SELECT
  distinct playerName
FROM
  Participate
WHERE
  goalsScored >= 3;
SELECT
  distinct teamName
FROM
  Participate,
  SoccerPlayer
WHERE
  SoccerPlayer.name = Participate.playerName and goalsScored >= 3;
SELECT
  distinct Team.name
FROM
  Team,
  Game
```

```
WHERE

(Game.firstTeam = Team.name and Game.firstScore > 3) or

(Game.secondTeam = Team.name and Game.secondScore > 3);

SELECT

distinct Team.name

FROM

Game,

Team

WHERE

(Game.firstTeam = "Cal Poly" and Game.firstScore > Game.secondScore and Team.name = Game.secondTeam) or

(Game.secondTeam = "Cal Poly" and Game.secondScore > Game.firstScore and Team.name = Game.firstTeam);
```