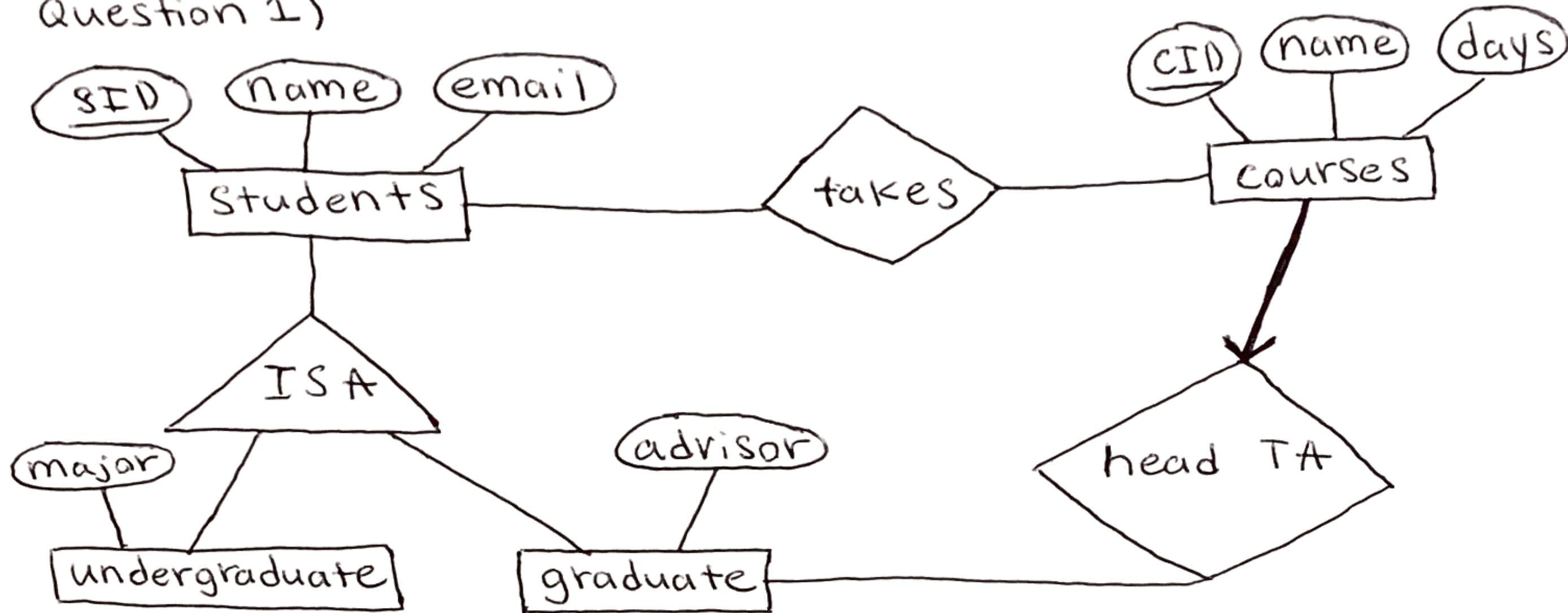


Question 1)



Assumptions:

- 1) Courses may have no students taking them
- 2) Students must be either an undergraduate or graduate student

Question 2)

CREATE TABLE Car

(LicenceNum CHAR(20),

Province CHAR(20),

Make CHAR(20),

Model CHAR(20),

Year INTEGER,

VIN CHAR(20),

PRIMARY KEY (LicenceNum, Province),

FOREIGN KEY (Make) REFERENCES Manufacturer)

Question 3)

1: SELECT E.ename
FROM Emp E, Works W, Proj P
WHERE E.eno = W.eno AND W.pno = P.pno AND P.pname = "Installation"

2: SELECT E.eno
FROM Emp E, Pay P
WHERE E.title = P.title AND P.Salary > (SELECT AVG(P1.Salary)
FROM Pay P1)

```
3: SELECT P.city, COUNT(*), SUM(P.budget)
    FROM Proj P
    GROUP BY P.city
```

```
4: SELECT P.name
    FROM Proj P
    WHERE P.budget > (SELECT MIN(P1.budget)
                      FROM Proj P1
                      WHERE P1.city = "Boca Raton")
```

```
5: SELECT E.ename
   FROM Emp E
  WHERE NOT EXISTS (( SELECT P.pno
                      FROM proj P)
                   EXCEPT
                   (SELECT W.pno
                    FROM Works W
                    WHERE W.eno = E.eno))
```

```
6: SELECT P.pname
   FROM Proj P
  WHERE EXISTS (SELECT W.responsibility
                FROM Works W
                WHERE W.pno = P.pno
                GROUP BY W.responsibility
                HAVING COUNT(*) > 2)
```