Question 1

1. generalization
2. aggregation
3. generalization
4. aggregation
5. association

Question 2

1. Diagram

   Description automatically generated

2.

Table

Description automatically generated

3.

A picture containing table

Description automatically generated

4.

Diagram

Description automatically generated

Question 3.

1. The systems is modeling what looks like a conference in some kind of sport. The conference is made up of teams, which is in turn made up of players. Each conference has an assigned stadium.

Diagram

Description automatically generated

1. The typical programming language cannot express n-ary associations
2. Yes, an n-ary association enforces that there is at most one link for each combination, but the promoted class permits any number of links

Question 4.

Diagram

Description automatically generated

question 5

Each bank account has an account number. The bank account belongs to a person’s attributes are as follows: married or single, employed or unemployed, birthday, age, first name, last name, and sex. Their income is also stored. Each person if married, has a husband or wife. The marriage has a place and a date. Each person if employed is either consider a manager or an employee. All managers and some employees belong to a company, each company has a name, a certain number of employees and a stock price. Other employees just have a normal job with a job title, a start date, and a salary.