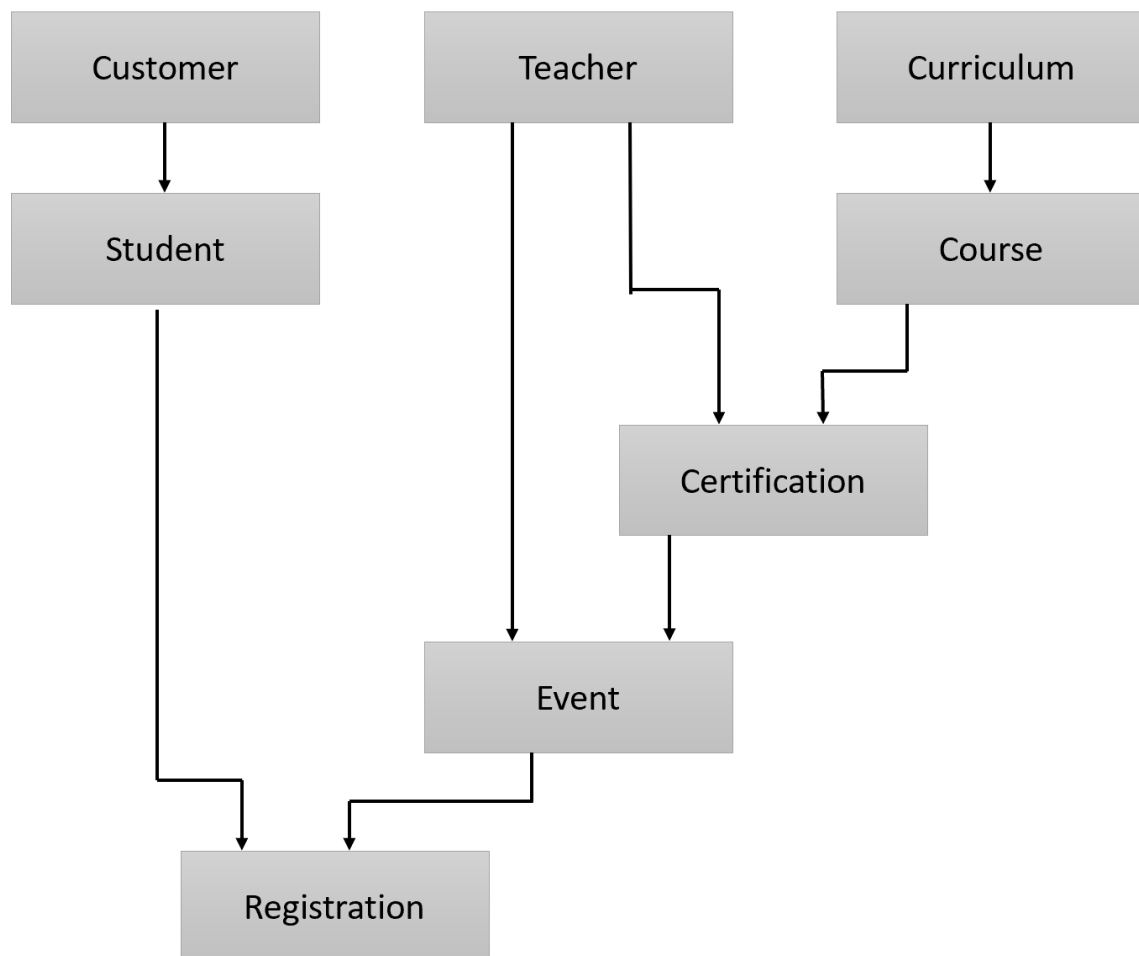


Database Design – Answers

These answers are suggestions rather than the one and only correct solution. With different definitions in mind and different assumptions on the processes at hand you may come to a (slightly) different ERD.

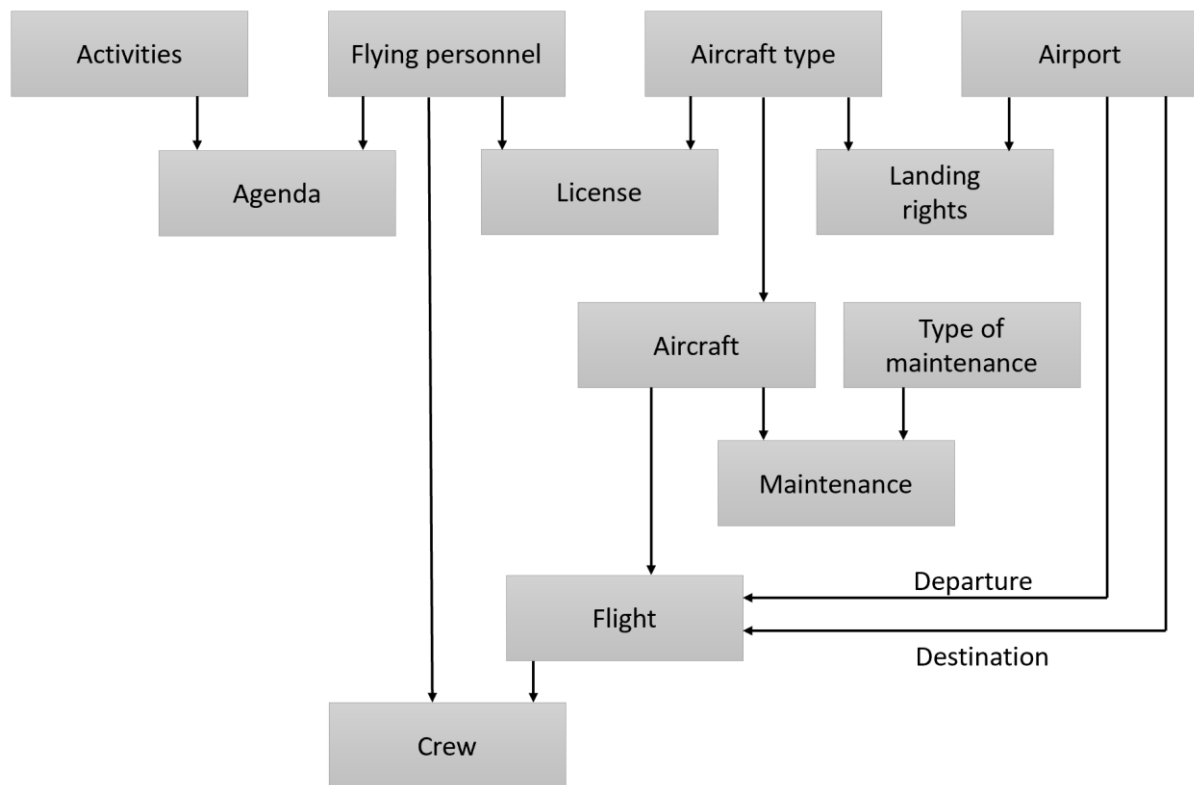
Exercise 1: Student registration



Remarks:

- We do not distinguish between independent contractors and employees. We could model sub entities but implementing them is hard in tables (not so difficult in JSON documents). Depending on the chosen database system we make a choice later between using one table or two separate ones.
- We could create a separate table Person to hold address information. Customers, Students and teachers alike have addresses. When addresses are rarely used but when used the addresses of the three entities are often combined, creating a separate entity Address would make sense.

Exercise 2: airline



Remark:

- Flight is an uninterrupted movement of a plain without stopovers.