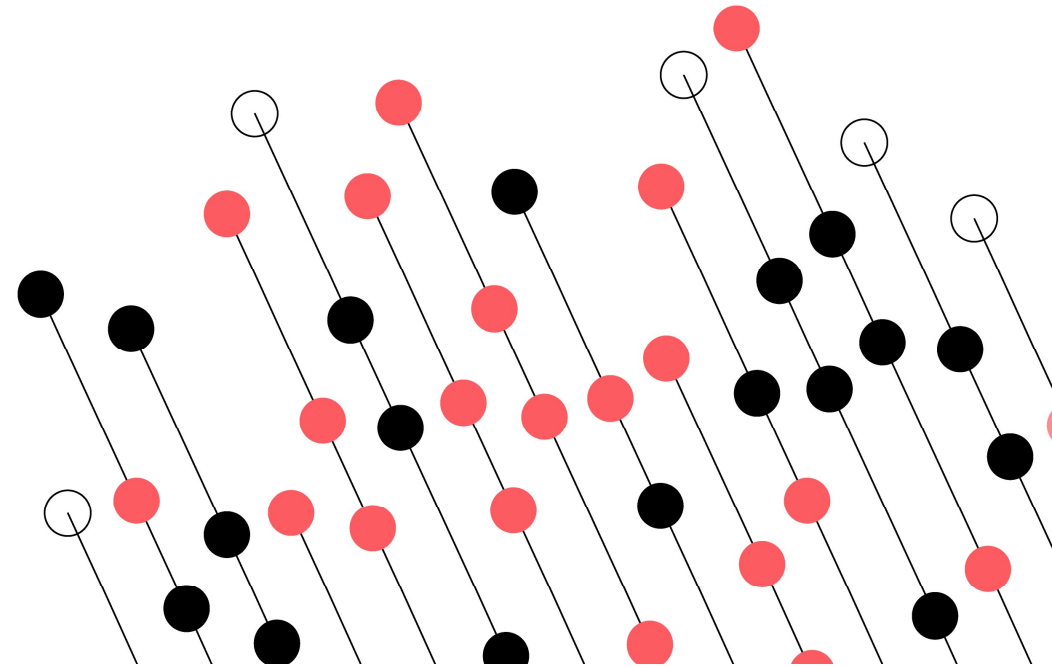


# Conceptual Data Models

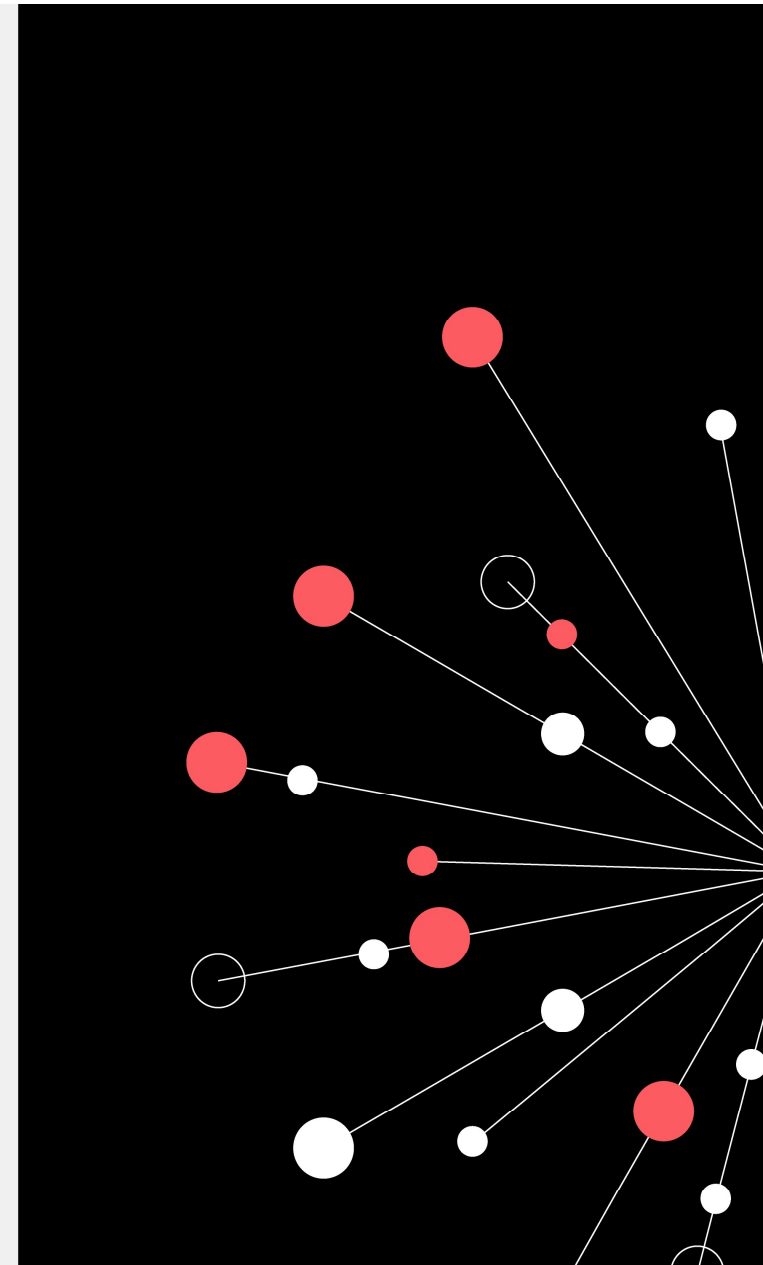


# Data Modelling

## Contents

### Conceptual data models:

- Entities
- Relationships
- Cardinality



# Data modelling

Let's take a look at an **Airline System**.

- Passenger
- Ticket
- Aircraft
- Flight



# Entities and relationships

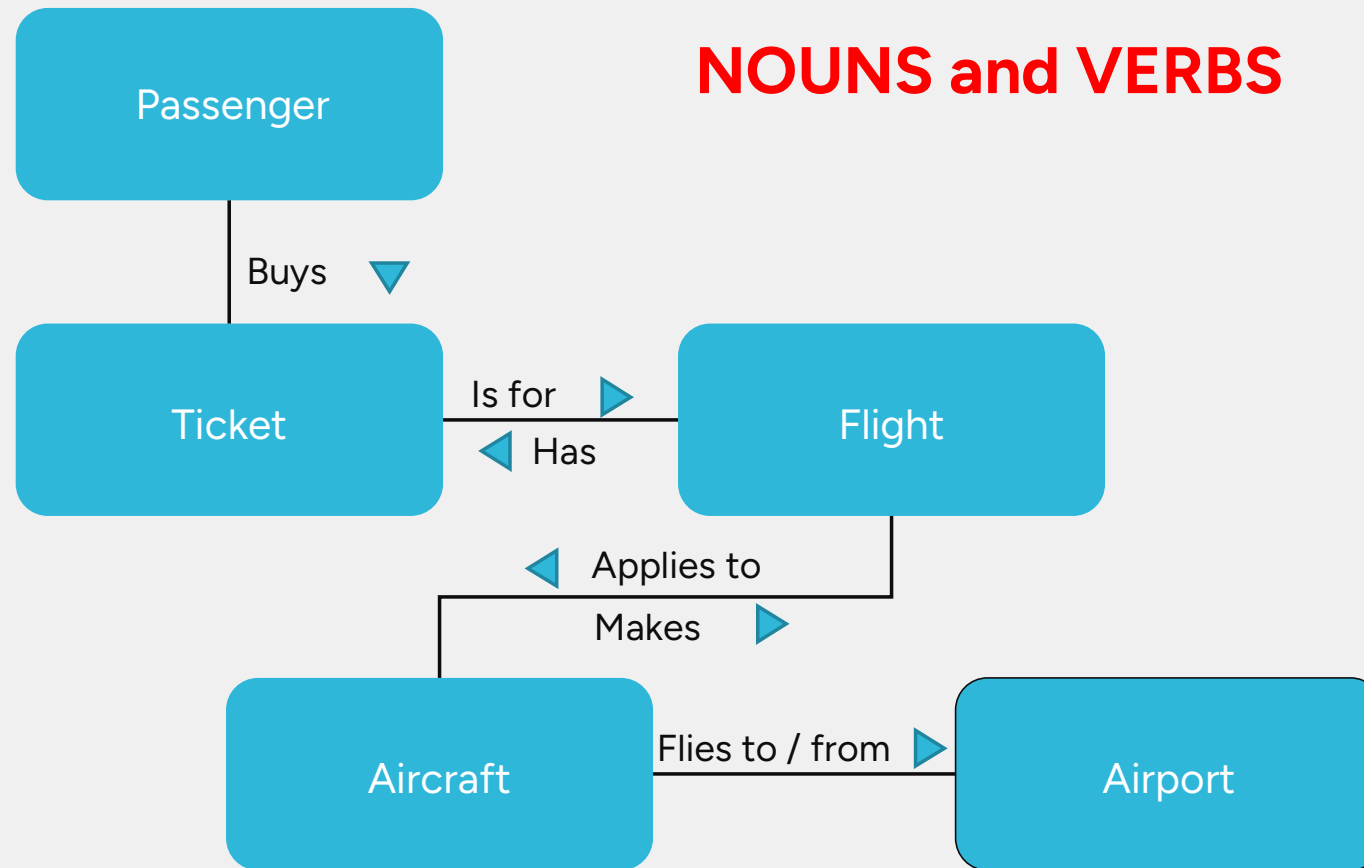
Entities and Relationships – **NOUNS** and **VERBS**

Airline System

A **Passenger** **buys** a **Ticket** to **travel** on an **Aircraft** which **carries out** a **Flight** from one **Airport** to another **Airport**



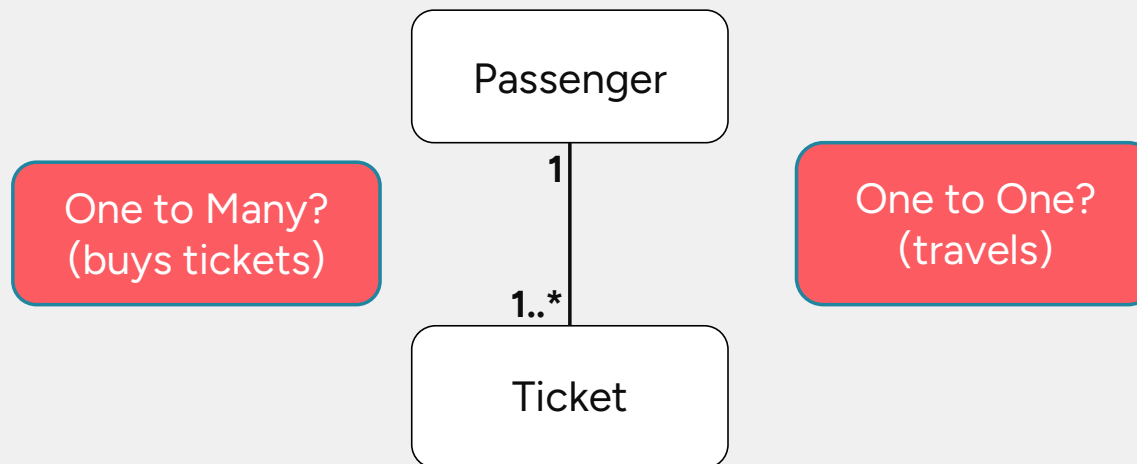
# Conceptual model: identifying entities and relationships



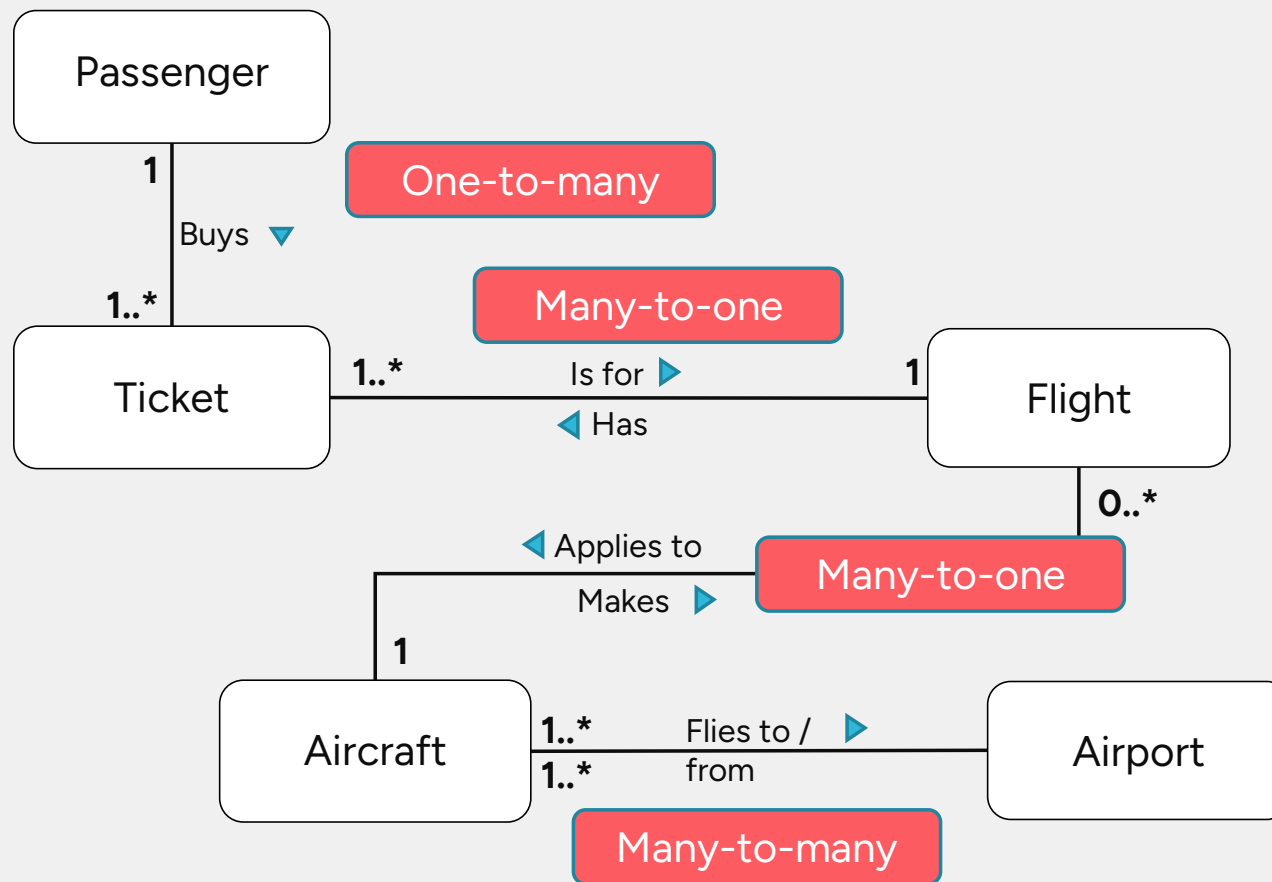
# Cardinality

The cardinality in our Airline model.

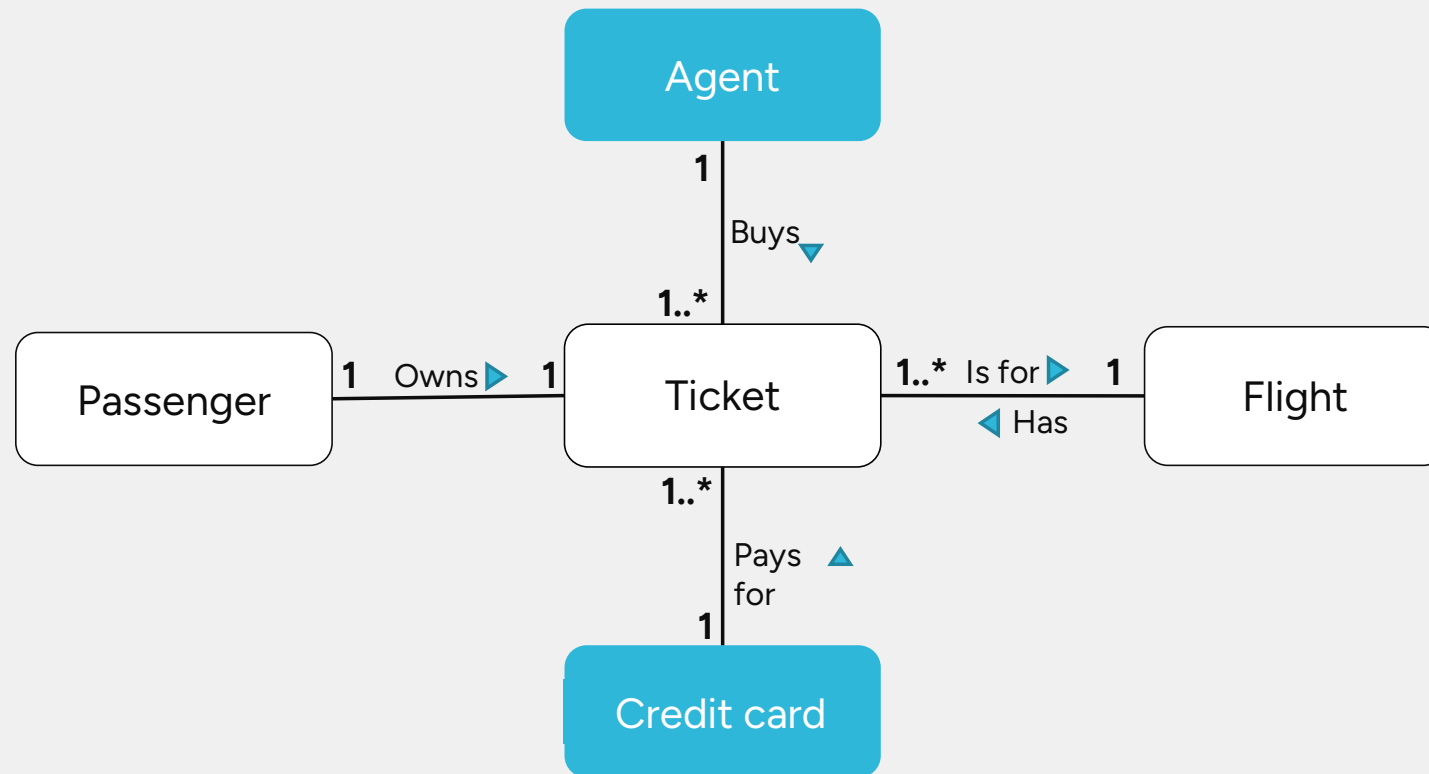
We specify the cardinality according to our business rule.



## Conceptual model: identifying cardinality



## Extending the conceptual model





## Extended conceptual model

