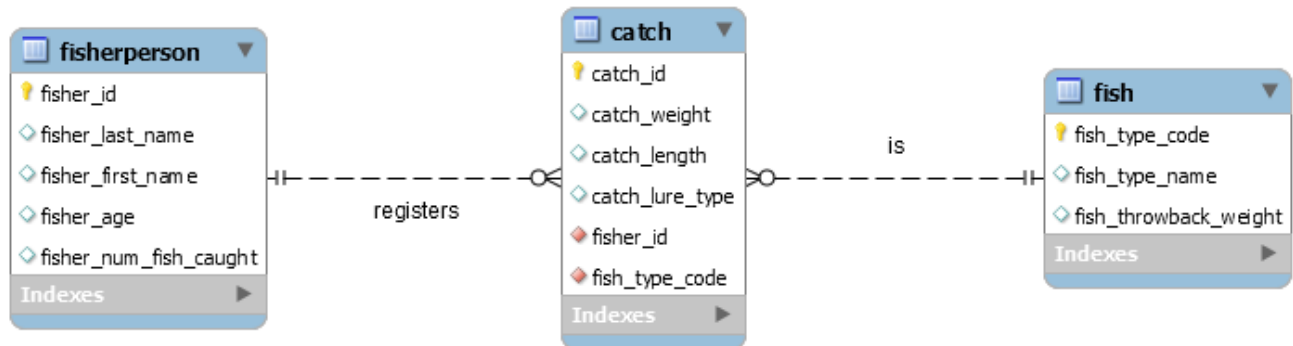


Conceptual Database Modelling

Scenario 1: Annual regional fishing festival

Assumptions:

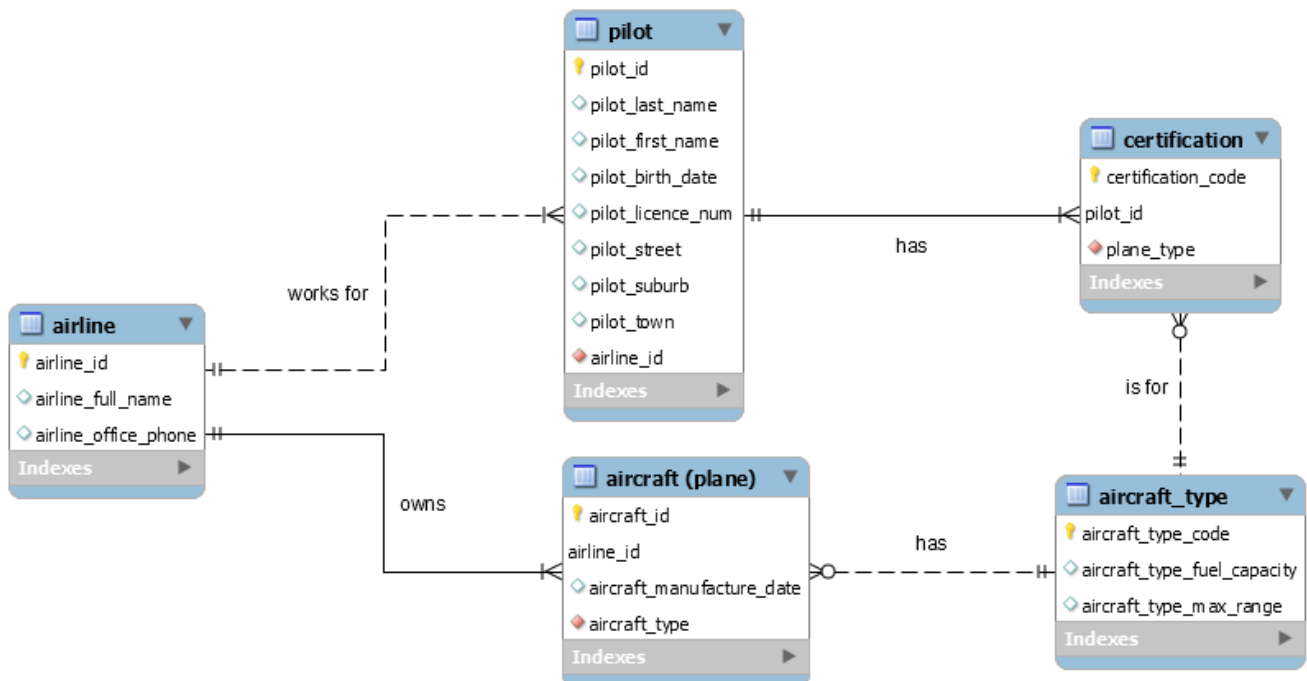
- A fisherperson may catch zero, one or many fish.
- A particular type of fish may not be caught at all, or may be caught many times.



Scenario 2: Airport Authority database

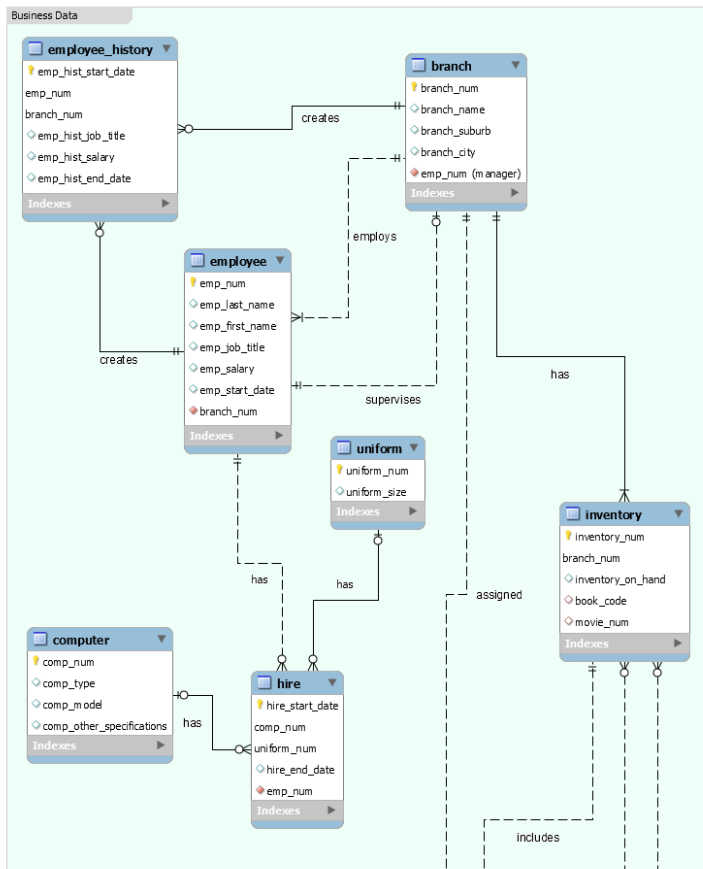
Assumptions:

- An airline employs at least one pilot.
- An airline owns at least one plane.
- There can be multiple planes of the same type, or there can be none.
- A pilot can fly at least one type of plane.
- There may be some plane types that no pilot can currently fly.



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Scenario 3: JM Books



Assumptions:

Books

- A author may have written zero or more books.
- A publisher may have published zero or more books.
- A book has a publisher and at least one author.
- A book may be adopted by zero or more courses (subjects) as a textbook.
- An instructor can teach zero or more courses (subjects).
- A course (subject) can only be taught by one instructor.

Inventory

- A book may be listed zero or more times in a branch's inventory.
- A movie may be listed zero or more times in a branch's inventory.
- Each inventory record corresponds to a book or movie, but not both.
- An inventory record may correspond to zero or more rental DVDs.
- A branch has at least one copy of a book or movie.

Movies and DVD rental

- An actor may have been part of the cast of zero or more movies.
- A director may have been part of the directing crew of zero or more movies.
- A movie has at least one director and one actor.
- A rental club member can rent zero or more DVDs.
- A branch can be assigned zero or more DVDs.
- Each DVD belongs to a branch.

Employees

- A branch employs at least one person.
- Only some employees supervise branches.
- Branches and employees may or may not have an employee history.
- Each hire record corresponds to one uniform and/or one tablet computer.
- Each individual uniform and tablet computer may have been hired out zero or more times.
- An employee may hire out more than one tablet computer and/or uniform; for example, to replace a tablet computer.

