

Database Design and Implementation for *Pets in Care*

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1 Abstract

In this exercise,¹ we will develop a database that captures the business of *Pets in Care*, a fictional company which operates a network of veterinary care clinics in the United Kingdom.

2 Notes and Acknowledgements

The names in the database are, for a lack of better source, taken from the list of the sitting Members of Parliament (*Lists of MPs* 2010), as well as from (Minář 2008). UK postal addresses are slightly modified postal addresses of *Burger King* (*Find a BK* 2010) and *McDonald's* (*McDonald's* 2010) restaurants. Pet names are from (*Popular Pet Names* 2010). Country codes and names follow (International Organization for Standardization 2006).

¹This is a summative work for the Computer Systems (Introduction to Databases) sub-module taught at Durham University, UK in Michælmas 2010. It is based on our previous work in (Minář 2008)

Telephone numbers: The database can store one telephone number per owner/employee, and one fax + telephone number per clinic. In real-life deployment, a separate relation would list various means of contact (telephone, fax, e-mail, ...) in a one-to-many fashion. Telephone numbers are treated as textual blobs (no knowledge of their semantics is assumed).

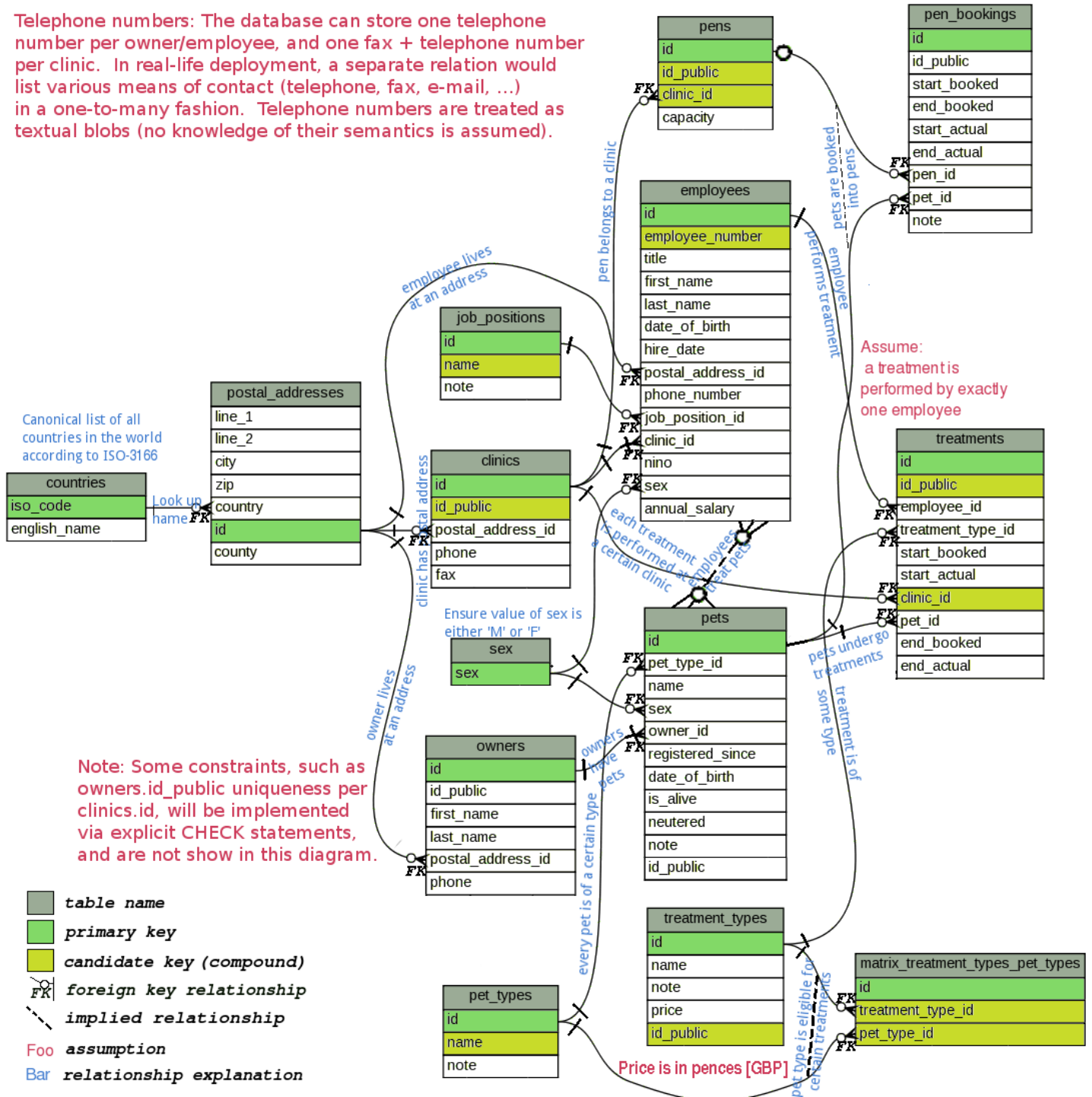


Figure 1: Entity Relationship Diagram for the Pets in Care database (based on Minář 2008, p2)

References

- Find a BK* (2010), Burger King Europe GmbH. (source of UK postal addresses).
URL: <http://www.burgerking.co.uk/find>
- International Organization for Standardization (2006), *ISO 3166-1:2006 Codes for the representation of names of countries and their subdivisions - Part 1: Country codes*, 2 edn, ISO, Geneva. (source of country names and codes).
URL: <http://www.iso.org/>
- Lists of MPs* (2010), United Kingdom Parliament. (source of first names and surnames).
URL: <http://www.parliament.uk/mps-lords-and-offices/mps/>
- McDonald's* (2010), McDonald's Corporation. (source of UK postal addresses).
URL: <http://www.mcdonalds.co.uk/restaurants/restaurant-locator.shtml>
- Minář, J. (2008), *Computer Systems — Database Assignment (Summative) Michaelmas 2008*, Durham University. Summative assignment.
- Popular Pet Names* (2010), Petsname.net. (source of pet names).
URL: <http://www.petsname.net/popular-pet-names.php>