

Exploring WEKA

Database, Datawarehouse and dataset

PL04

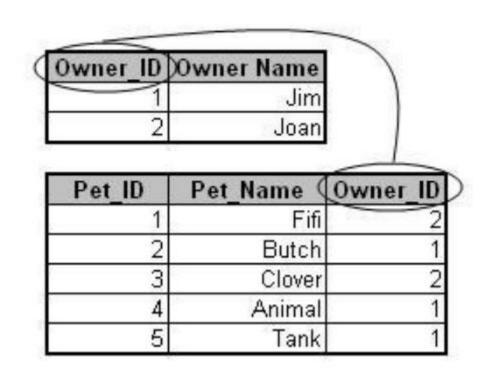


Material

http://hpeixoto.github.io/dc

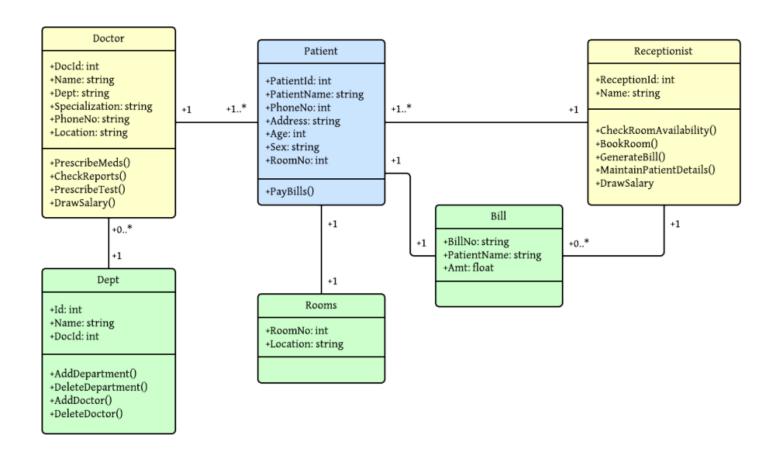


DATA BASE





DATA BASE



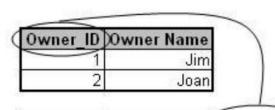


DATA BASE

 Most relational databases which are designed to handle a high number of reads and writes (updates and retrievals of information) are referred to as OLTP (online transaction processing) systems.



DATA BASE vs DATA WAREHOUSE



Pet_ID	Pet_Name	Owner_ID
1	Fifi	2
2	Butch	1
3	Clover	2
4	Animal	1
5	Tank	1

Pet_ID	Pet_Name	Owner_Name
1	Fifi	Joan
2	Butch	Jim
3	Clover	Joan
4	Animal	Jim
5	Tank	Jim



DATA WAREHOUSE

- Databases designed in this way are called OLAP systems
 - Online Analytical Processing

 Denormalization typically takes place at the time data is being copied out of transactional database.



DATA WAREHOUSE

 Data mining is generally most effectively executed on data data sets, extracted from OLAP, rather than OLTP systems.



DATA SET

Subset of a database or a data warehouse.

- Creation of a data set includes:
 - Appending, combining, simplifying some data expressions
 - For exemple change data format



TYPES OF DATA

Operational Data:

 the most elemental type of data, operational data, comes from transactional systems which record everyday activities;

Organizational Data:

 help to protect peoples' privacy, while still proving useful to data miners watching for trends in a given population.



SECURITY & PRIVACY

we should be aware that as we gather, organize and analyze data, there are real people behind the figures

people have

certain rights to privacy and protection against crimes such as identity theft



BASE LINE EVALUATION

ZeroR

Chooses the most common class and Classifies all instances with that value



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