

Introduction To Databases

Relevel
by Unacademy



What is a database?

A structured set of data held in a computer, which is accessible in multiple ways



Need of databases:



Storage



Easy update



Accuracy



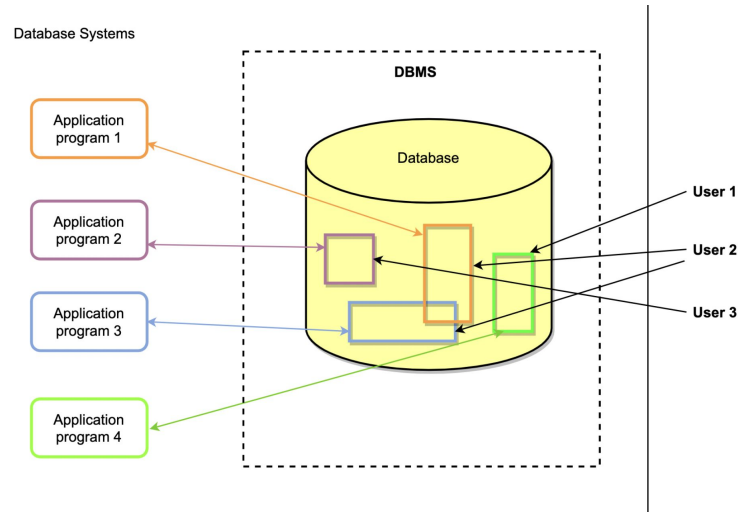
Security



Data Integrity

DBMS

- It is a collection of programs that enables end users to create, read, update and maintain database



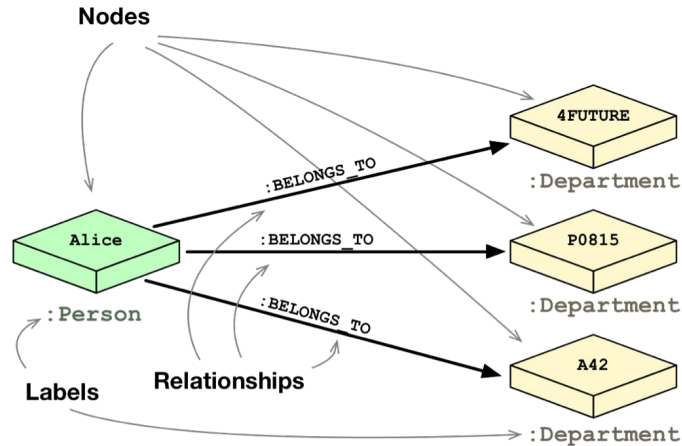
Types of databases:

- Spreadsheet
- RDBMS
- Nosql
- Graph Based Datastore
- Key value data store



RDBMS

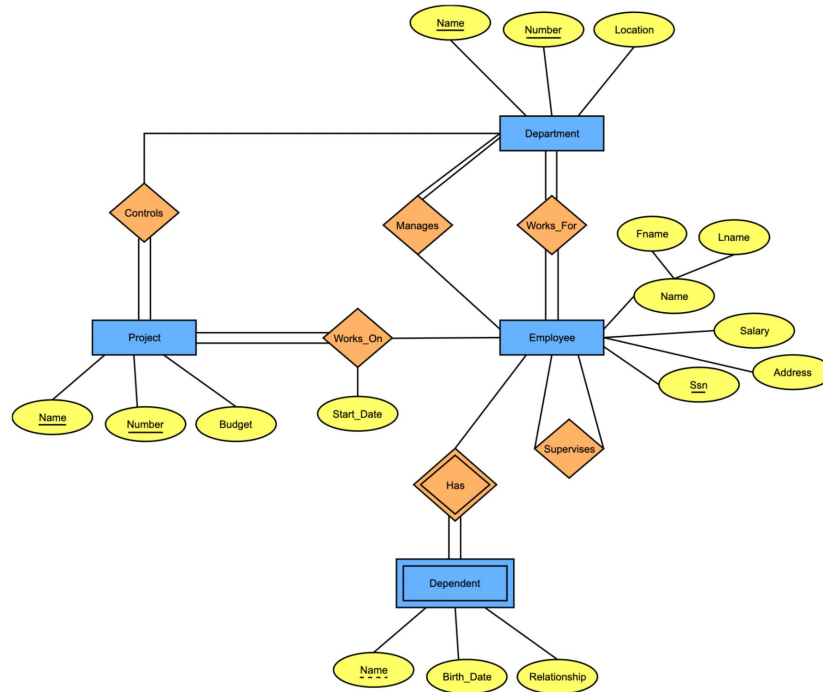
The word RDBMS stands for Relationship Database Management System. It is used to establish the relationship between the (relations) tables by using different keys, mainly primary, foreign, and indexes.



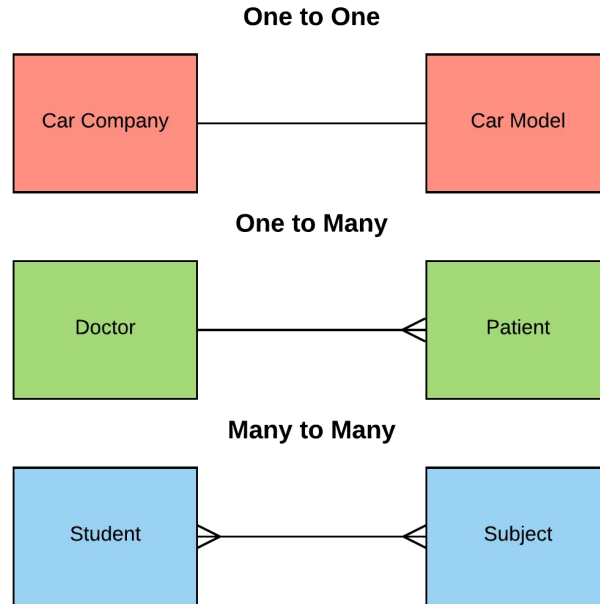
Schema

```
2
3 const tweetSchema = new mongoose.Schema({
4   text: {
5     type: String,
6     required: true,
7     maxlength: 120
8   },
9   status: {
10    type: String,
11    enum: ['draft', 'published'],
12    default: 'draft'
13  },
14  user: {
15    type: mongoose.Schema.Types.ObjectId,
16    ref: 'user'
17  }
18 }, {timestamps: true});
19
```

E R Diagram



Relationships



Thank you