# What we have

## Tables

1. **Table Name : Cdocs\_case\_action\_index**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Key Type** | **Description** |
| case\_action\_id | bigint(20) UN PK | **Primary** |  |
| case\_id | bigint(20) UN | **Foreign** |  |
| actor | varchar(30) |  |  |
| action | varchar(30) |  |  |
| description | mediumtext |  |  |
| date\_time | datetime |  |  |
| file\_reference\_number | int(2) UN |  |  |
| last\_indexed | datetime |  |  |

1. **Table Name : Cdocs\_case\_meta\_index**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Key Type** | **Description** |
| post\_id | bigint(20) UN AI PK | **Foreign Key** |  |
| case\_number | varchar(50) | **Primary** |  |
| case\_type | varchar(100) |  |  |
| case\_status | varchar(100) |  |  |
| file\_date | int(8) |  |  |
| status\_date | int(8) |  |  |
| judge\_1\_id | int(10) UN |  |  |
| judge\_2\_id | int(10) UN |  |  |
| judge\_3\_id | int(10) UN |  |  |
| judge\_4\_id | int(10) UN |  |  |
| judge\_5\_id | int(10) UN |  |  |
| court\_term\_id | int(4) UN |  |  |
| last\_indexed | datetime |  |  |

1. **Table Name: Cdocs\_case\_party\_assignment\_index**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Key Type** | **Description** |
| party\_assignment\_id | bigint(20) UN PK | **Primary** |  |
| party\_id | bigint(20) UN | **Foreign** |  |
| party\_type | varchar(30) |  |  |
| attorney\_id | bigint(20) UN | **Foreign** |  |
| case\_id | bigint(20) UN | **Foreign** |  |
| court\_term\_id | bigint(20) UN |  |  |
| last\_indexed | datetime |  |  |

1. **Table Name: Cdocs\_case\_party\_index**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Key Type** | **Description** |
| post\_id | bigint(20) UN AI PK | **Primary** |  |
| party\_name | varchar(255) |  |  |
| party\_initials | varchar(10) |  |  |
| is\_available\_in\_search | tinyint(1) UN |  |  |
| last\_indexed | datetime |  |  |

## Entities

|  |
| --- |
| Case |
| Case Action |
| Attorney |
| Judge |
| Party |
| Party\_assignment - Not sure if this should be an entity or not but one of the tables has party\_assignment ids |

Out of these 6 entities we have tables with primary keys for

* Case
* Case Action
* Party
* Party Assignments

### How entities are related to each other?

<https://afteracademy.com/blog/what-are-the-different-types-of-relationships-in-dbms>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Case** | **Case Action** | **Attorney** | **Judge** | **Party** |
| **Case** |  | One to Many | One to Many | One to Many | One to Many |
| **Case Action** | Many to One |  | No relationship | One to One | One to One |
| **Attorney** | Many to One | No relationship |  | No relationship? One to Many? | One to Many |
| **Judge** | Many to One | One to One | No relationship? One to Many? |  | No relationship? One to Many? |
| **Party** | Many to One | One to One | One to One? One to Many? | No relationship? One to Many? |  |

## 

## Useful Attributes or Associations

|  |
| --- |
| Party Assignments to Cases |
| Attorney Assignments to Cases |
| Date time of each case action - can be used to find case durations |

# What we want

## Normalized Database

* Need to come up with the Entity Relationship diagram of the database that we have now and what we want after normalization and cleaning. <https://www.visual-paradigm.com/guide/data-modeling/what-is-entity-relationship-diagram/>
* What kind of normalization do we want ? 1NF, 2NF or 3NF? <https://www.guru99.com/database-normalization.html>

# What analysis we can do in the later part of the project

* Cluster cases w.r.t to case status and come up with numbers ( how many cases of each type are there? How many are active? etc)
* Cluster or categorize cases w.r.t to duration of cases
* Correlations between type of cases and duration of cases
* Categorize case actions
* Correlation between specific case action types and case types
* Analysis on which things affect case durations
* Analysis by Year