**Documentation for ICD-10 Data**

**Database Structure**

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 1.0 | 2024-10-13 | Abel Parra | Creates document |
|  |  |  |  |
|  |  |  |  |

# Introduction

This document outlines the structured storage of data extracted from the ICD-10 Classification website (<https://icd.who.int/browse10/2016/en>) for use in future projects. The data is stored in an SQLite database specifically designed to represent the classification in a hierarchical structure, comprising Chapters, Blocks, Codes, and Sub-Codes. The document provides a detailed description of the database schema, including the tables and their relationships, accompanied by a diagram to illustrate the overall structure.

# Diagram

Below is the diagram to visualize the database structure:

A diagram of a computer

Description automatically generated

# Tables Descriptions

## Chapters Table

This table stores the high-level categorization of the ICD-10 classification, known as "Chapters" Each chapter represents an item in the left side menu:

**Columns:**

* **id\_chapter (INTEGER, Primary Key):** A unique identifier for each chapter.
* **name (TEXT, Unique):** The name of the chapter.
* **introduction (TEXT):** An introduction or overview of the chapter's content.
* **notes (TEXT):** Additional notes or comments related to the chapter.

## Blocks Table

The "Blocks" table stores subdivisions within each chapter. Each block groups related conditions or diseases.

**Columns:**

* **id\_chapter (INTEGER):** Foreign key referencing chapters.id\_chapter, indicating the chapter this block belongs to.
* **id\_block (INTEGER, Primary Key):** A unique identifier for each block within a chapter.
* **name (TEXT):** The name of the block.
* **description (TEXT):** A description of the conditions or diseases covered by the block.
* **inclusion (TEXT):** Specifies what is included in this block.
* **exclusion (TEXT):** Specifies what is excluded from this block.
* **href (TEXT):** URL or reference link for more details about the block.

## Codes Table

This table contains individual codes that classify specific conditions or diseases within a block.

**Columns:**

* **id\_chapter (INTEGER):** Foreign key referencing chapters.id\_chapter, indicating the chapter this code belongs to.
* **id\_block (INTEGER):** Foreign key referencing blocks.id\_block, indicating the block this code belongs to.
* **id\_code (INTEGER, Primary Key):** A unique identifier for each code within a block.
* **name (TEXT):** The name or title of the code.
* **description (TEXT):** A detailed description of the condition or disease represented by the code.
* **inclusion (TEXT):** Specifies conditions included under this code.
* **exclusion (TEXT):** Specifies conditions excluded from this code.

## Sub-Codes Table

The "Sub-Codes" table provides additional granularity to the classification, offering further breakdowns within a code.

**Columns:**

* **id\_chapter (INTEGER):** Foreign key referencing chapters.id\_chapter, indicating the chapter this sub-code belongs to.
* **id\_block (INTEGER):** Foreign key referencing blocks.id\_block, indicating the block this sub-code belongs to.
* **id\_code (INTEGER):** Foreign key referencing codes.id\_code, indicating the code this sub-code belongs to.
* **id\_sub\_code (INTEGER, Primary Key):** A unique identifier for each sub-code within a code.
* **name (TEXT):** The name or title of the sub-code.
* **description (TEXT):** A detailed description of the condition or disease represented by the sub-code.
* **inclusion (TEXT):** Specifies conditions included under this sub-code.
* **exclusion (TEXT):** Specifies conditions excluded from this sub-code

## Database Relationships

The database uses a hierarchical structure where:

* A Chapter can have multiple Blocks.
* A Block belongs to a specific Chapter and can have multiple Codes.
* A Code belongs to a specific Block and can have multiple Sub-Codes.
* A Sub-Code belongs to a specific Code within a Block.

# Sample Data

This section includes screenshots of the database with the stored information.

## Chapters

A screenshot of a computer

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## Blocks

A white sheet with black text

Description automatically generated

## Codes

A screenshot of a computer

Description automatically generated

## Sub-Codes

A screenshot of a computer

Description automatically generated

# Appendix A: Viewing the Database Content

The information stored in the SQLite database (.db file) can be easily viewed using an online SQLite viewer. To visualize the database content, follow these steps:

1. Visit the website: https://inloop.github.io/sqlite-viewer/.
2. Drag and drop the SQLite database file onto the web page.
3. The contents of the database will be displayed, allowing for easy exploration of the data structure and stored information.

This tool provides a user-friendly way to inspect the data without requiring additional software installations.