Chat GPT o1:

I want to gather data from company reports for a metal database for industrial ecology, criticality and ESG purposes. I have defined different tables with a list of variables I want to collect for each table. I would need help to collect the data from different documents (annual reports, sustainability reports, technical reports) that are mainly PDFs.

I would like you to help me directly through documents I will give you. I have defined the following tables along with their name, description and type:

Ok let's start with Cameco. I am interested by the facilities in Canada only, and by the following facilities: Cigar Lake Key Lake McArthur River Blind River Port Hope Eagle Point Millennium Rabbit Lake For each of them I would like you to help me collect information according to my template (eg my tables I gave you)

# Template

**Ownership table**

|  |  |  |
| --- | --- | --- |
| owner(s) | Owners of the facility, with their ownership in brackets | string |
| operator(s) | Operators of the facility with their ownership in brackets | string |
| interconnectedness | Group of/links between facilities | string |
| lifetime | Lifetime of the plant (from when to when) | string |
| licence | Authorized licence duration | string |
| cumulative\_production | Cumulative production | int/float |
| cumulative\_production\_unit | Cumulative production unit | int/float |
| year | Reporting year | int |
| comment | Comment if relevant | string |

**Production table**

|  |  |  |
| --- | --- | --- |
| product\_type | Specifies material category and type of material stream. Possible entries: Ore mined, Ore processed, Concentrate, NM Mineral | string |
| material\_id | Unique ID | int |
| value | Mass of material stream (minerals), Mass of commodity contained in material (commodities) | int/float |
| value\_unit | Unit of material stream | string |
| ore\_grade | Overall grade of all commodities in an ore/concentrate combined (minerals), Ore grade of specific commodity (commodity) | int/float |
| ore\_grade\_unit | Unit of overall grade | string |
| metallurgical\_recovery |  | int/float |
| amount\_sold | Total material sold (e.g., ore or concentrate) | int/float |
| amount\_sold\_unit | Unit of total material sold | string |
| comment | Comment if relevant | string |

**Processing table**

|  |  |  |
| --- | --- | --- |
| input\_material | Input material(s) | string |
| input\_value | Input value | int/float |
| input\_value\_unit | Unit of input value | string |
| output\_material | Output material(s) | string |
| output\_value | Output value | int/float |
| output\_value\_unit | Unit of output value | string |
| grade\_input\_material | Grade of input material | int/float |
| grade\_unit | Unit of grade | string |
| recovery\_rate | Share of output material recovered from output material contained in input material | int/float |
| amount\_sold | Mass of output material sold | int/float |
| amount\_sold\_unit | Unit of output material sold | string |
| payable\_metal | Mass of output material contained in input material after a deduction of a share specified by the processing facility’s operator, in tonnes | int/float |
| payable\_metal\_unit | Unit | string |
| comment | Comment if relevant | string |

**Reserves**

|  |  |  |
| --- | --- | --- |
| proven\_reserves | Proven reserves | int/float |
| probable\_reserves | Probable reserves | int/float |
| reserves\_unit | Unit of reserves | string |
| indicated\_resources | Indicated resources | int/float |
| inferred\_resources | Inferred resources | int/float |
| measured\_resources | Measured resources | int/float |
| resources\_unit | Unit of resources | string |
| grade | Grade for long-term reserves | int/float |
| grade\_unit | Unit of grade | string |
| comment | Comment if relevant | string |