**JSON a DDBB Relacional**

**1. Esquema de Base de Datos Relacional**

**Tablas principales y sus relaciones:**

1. **Tabla Publishers**
   * publisher\_id (PK)
   * name
   * uri
2. **Tabla Records**
   * record\_id (PK)
   * ocid
   * publisher\_id (FK a Publishers)
   * published\_date
   * license
   * publication\_policy
   * version
3. **Tabla Releases**
   * release\_id (PK)
   * record\_id (FK a Records)
   * url
   * release\_date
4. **Tabla CompiledReleases**
   * compiled\_release\_id (PK)
   * record\_id (FK a Records)
   * compiled\_date
   * published\_date
   * language
   * initiation\_type
5. **Tabla Parties**
   * party\_id (PK)
   * name
   * identifier\_scheme
   * identifier\_id
   * address\_street
   * address\_locality
   * address\_region
   * address\_country
   * contact\_point\_name
   * contact\_point\_email
   * contact\_point\_telephone
   * contact\_point\_fax
   * roles (puede ser una tabla separada si se requiere normalización de roles)
   * details\_level
   * details\_entity\_type
   * details\_type
6. **Tabla Contracts**
   * contract\_id (PK)
   * award\_id (FK a Awards)
   * title
   * contract\_number
   * status
   * status\_details
   * date\_signed
   * start\_date
   * end\_date
   * contract\_value\_amount
   * contract\_value\_currency
7. **Tabla Awards**
   * award\_id (PK)
   * title
   * status
   * status\_details
   * date\_awarded
   * award\_value\_amount
   * award\_value\_currency
8. **Tabla Tenderers**
   * tenderer\_id (PK)
   * party\_id (FK a Parties)
   * tender\_id (FK a Tenders)
9. **Tabla Tenders**
   * tender\_id (PK)
   * title
   * status
   * status\_details
   * date\_published
   * procurement\_method
   * procurement\_method\_details
   * main\_procurement\_category
   * submission\_method
   * tender\_period\_start\_date
   * tender\_period\_end\_date
   * number\_of\_tenderers
10. **Tabla Items**
    * item\_id (PK)
    * tender\_id (FK a Tenders)
    * description
    * quantity
    * unit\_name
    * item\_id\_external
11. **Tabla Documents**
    * document\_id (PK)
    * document\_type
    * title
    * url
    * format
    * language
    * date\_published
    * document\_type\_details
    * tender\_id (FK a Tenders)
    * contract\_id (FK a Contracts)
12. **Tabla Sources**
    * source\_id (PK)
    * url
    * name

**2. Relaciones entre las Tablas**

* **Publishers** se relaciona con **Records** mediante publisher\_id.
* **Records** se relaciona con **Releases** y **CompiledReleases**.
* **CompiledReleases** se relaciona con **Parties** y **Tenders**.
* **Parties** pueden ser asociadas a múltiples roles y a **Tenderers**.
* **Tenderers** se asocian con **Tenders**.
* **Contracts** se asocian con **Awards**.
* **Awards** pueden tener múltiples **Tenderers**.
* **Documents** pueden estar asociados a **Tenders** y **Contracts**.
* **Sources** se asocian con **Records** o **CompiledReleases**.