

SAP CDS Entity Relationship Diagrams

The small AWK script generate [mermaid](#) Entity Relationship diagrams from SAP Cloud Application Programming Model files.

How to run script

```
gawk -f src/cds2erd.awk db/* > bookstore.mermaid
```

Alternatively, you can move the script to the bin directory and make it executable:

```
chmod +x cds2erd.awk
```

In this case you can call the script without specifying an interpreter:

```
cds2erd.awk schema.cds > schema.mermaid
```

Sample generated ER diagram

Below is the database schema from the project [SAP Cloud CAP Samples Bookstore](#)

```
erDiagram
    Books {
        String title
        String descr
        Integer stock
        Decimal price
        Currency currency
        Decimal rating
        TechnicalBooleanFlag isReviewable
    }

    Authors {
        String name
        Date dateOfBirth
        Date dateOfDeath
        String placeOfBirth
        String placeOfDeath
    }
```

```

Genres {
    String name
    String descr
    Integer ID PK
}

Notes {
    String note
}

Orders {
    String OrderNo
    User buyer
    Decimal total
    Currency currency
}

OrderItems {
    Integer quantity
    Decimal amount
}

Reviews {
    Rating rating
    String title
    String text
}

Orders |o--o{ OrderItems : ""
OrderItems |o--o| Books : ""
Genres }o--o| Genres : ""
Books |o--o{ Reviews : ""
Books |o--o| Genres : ""
Books }o--o| Authors : ""

```