

THE DATABASE STRUCTURE

DB GURUS INTERNAL TRAINING

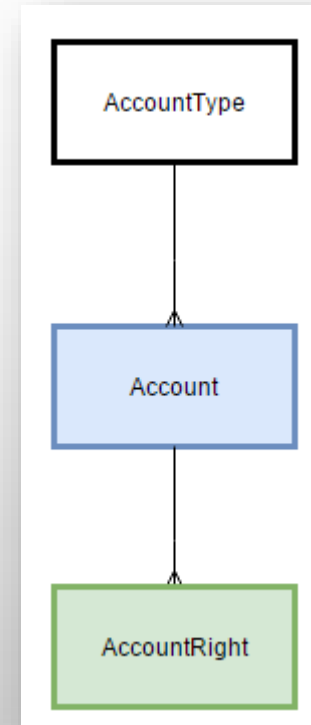
1. ACCOUNT

TheDatabase is a multi-tenanted database ([Wiki](#)) which means that multiple databases live within the same tables.

Each virtual database is an “account” and the top layer of this is the [Account] table.

Each account has its own virtual tables, users etc. and it also has various attributes.

Each Account is of an AccountType and has various AccountRights



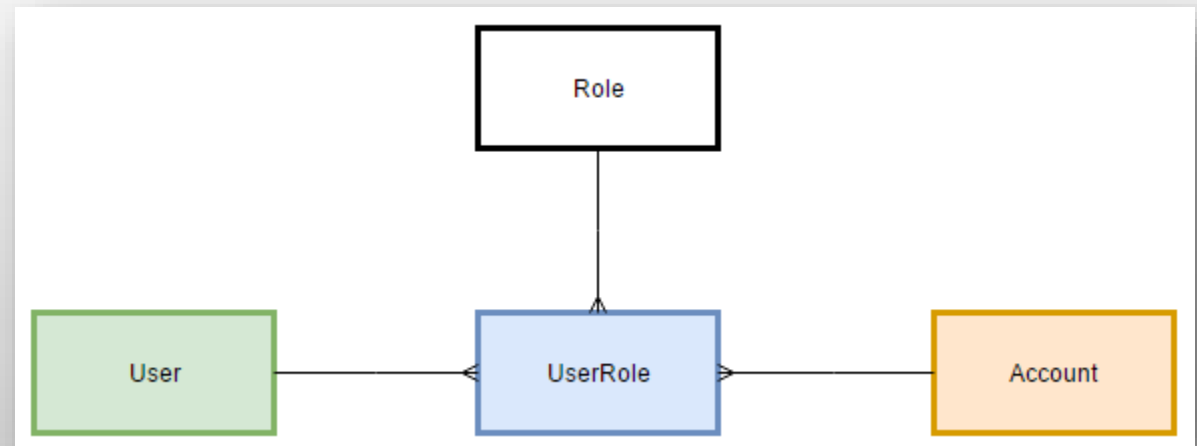
2. USERS

[User] contains login details (email and password).

[UserRole] defines what each [User] can do in each [Account].

The **[Role]** table defines what each Role can do.

Note that I am using simplified diagrams to explain the core relationships. The actual database relationships get pretty complex.



3. TABLES

Each [Account] has many tables

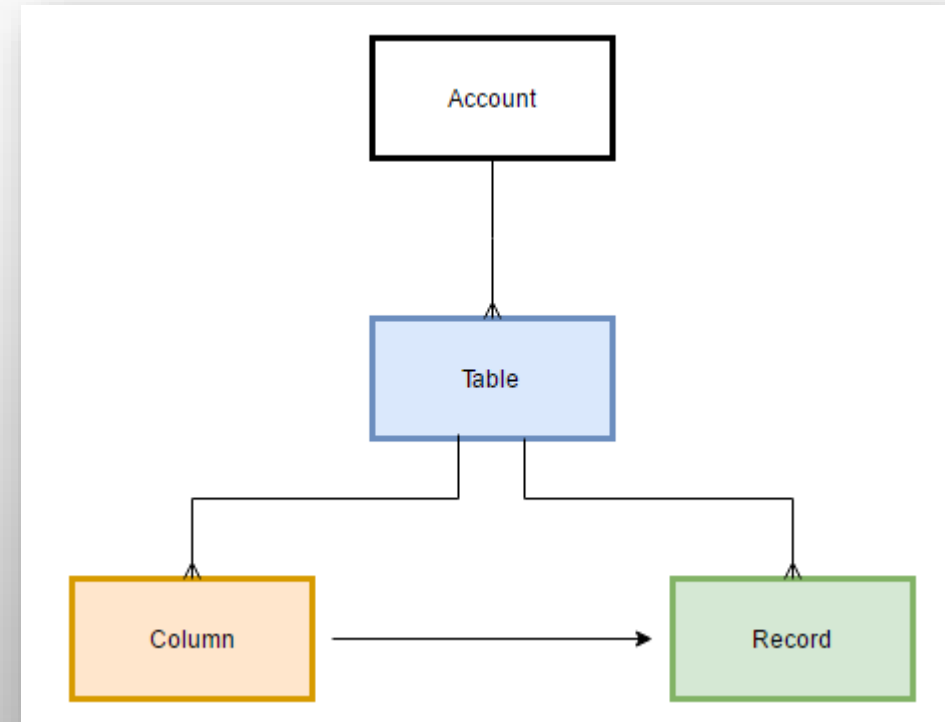
[Table] only contains meta data about each virtual table, such as the table name.

Each virtual table has multiple columns records and multiple records.

[Column] holds meta data about each column such as the column name.

[Record] contains the actual data in columns called [V001], [V002] up to [V500]

Note: [Column] is used to describe the data in [Record] but there is no actual database relationship.

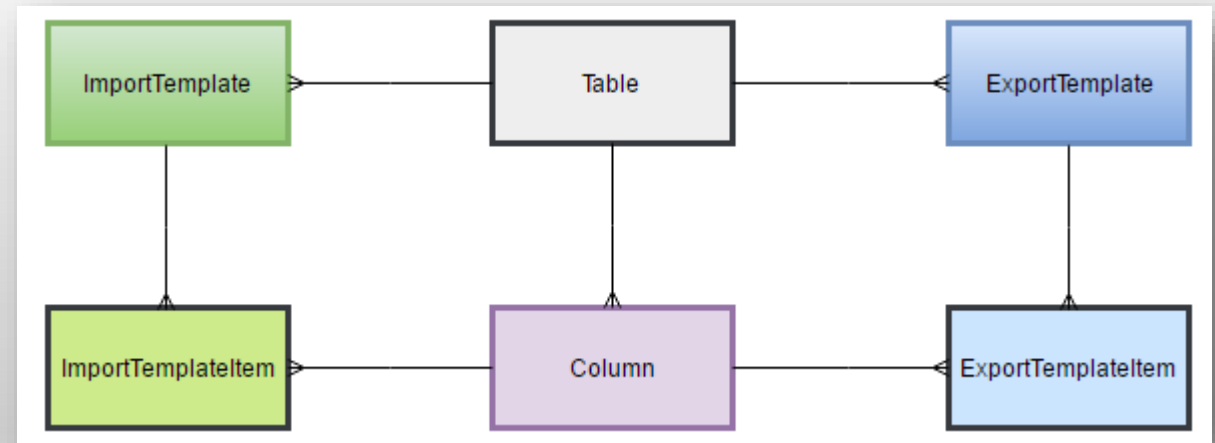


6. TEMPLATES

The Database uses templates for importing and exporting data.

Each table can have multiple import and export templates and therefore multiple formats.

Each template has a number of items – each one related to a column.



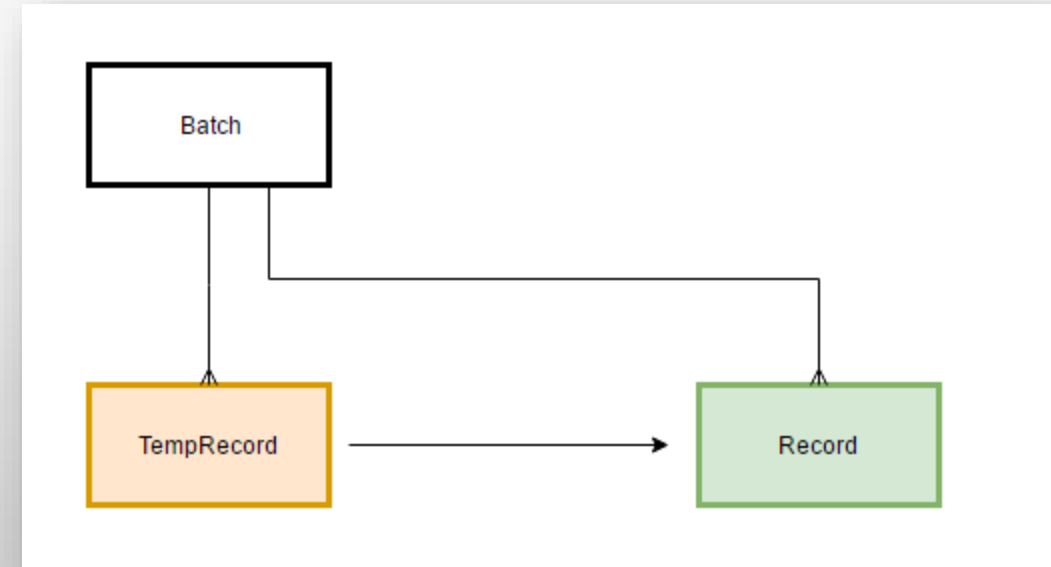
7. TEMPRECORD

When data is imported into TheDatabase it is stored in [TempRecord]

Data is imported in batches and the meta data is stored in [Batch]

Once the data is validated it is copied into [Record]

After a week or so it is deleted from [TempRecord]



8. AUDIT

Every time a change is made to [Record] then 2 rows are added to AuditRaw showing the before and after state

These rows are then converted and moved to the [Audit] table.

Note: There is no formal relationship between the tables because we did not want the constraints but I have shown it as a relationship on this diagram.

