



# Entity Relationship Diagrams

Version 24

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# 1 Scope

This document is intended to supply Entity Relationship Diagrams describing ALEPH's database structure. The entity diagrams are arranged according to functionalities, so that each diagram includes database tables that are related to a common function.


The document's diagrams are arranged in two separate chapters:

- Full Relationship – This chapter's diagrams map all of the tables that directly or indirectly relate to a central entity (see section 2). The following diagrams are included in this chapter:
  - BIB Document + Authorities
  - ADM Document + HOL Document
  - Course Reading
  - Acquisitions - Orders
  - Serial Subscriptions
  - Circulation + Items
  - Patrons
  - Staff User
  - VIR Tables
  - Inter Library Loans (ILL)
- Direct Relationships – This chapter's diagrams display only entities that directly relate to the central entity. The following diagrams are included in this chapter:
  - Acquisition Orders
  - Vendors
  - Budgets
  - General Invoice
  - Invoice Line
  - Reading Room
  - Advance Booking
  - Cash

# 2 Conventions

The following conventions are used for this document's diagrams.

- Each diagram has a central entity around which the rest of the diagram's entities revolve. Most, but not all, of the relationships will be related to the central diagram. The central entity is always in white.

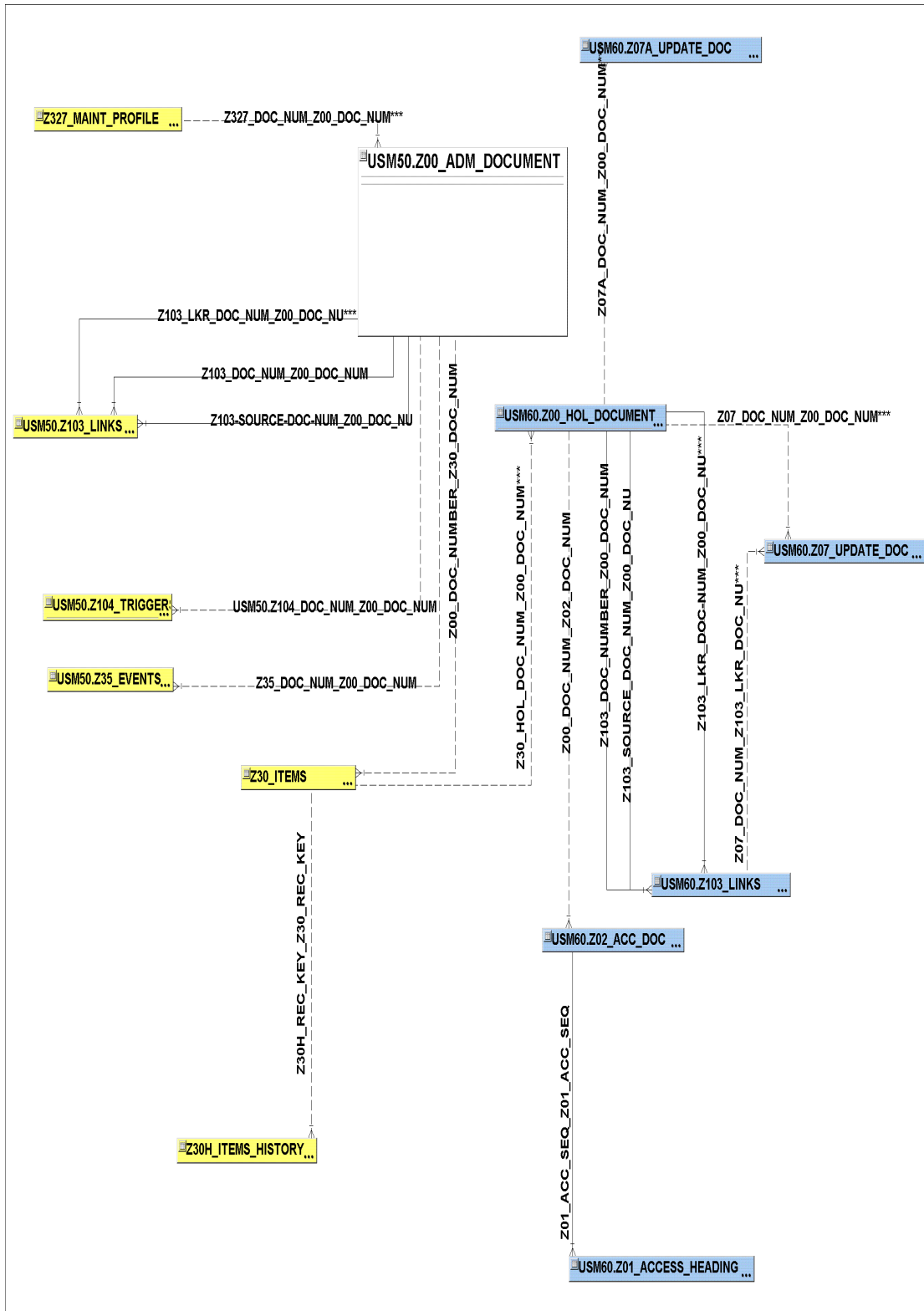
- Other entities that are stored in the same library as the central entity are in yellow. If the entity is stored in another library, it is colored differently. For example, if the central entity is Z303, which is stored in the USR library, only related entities that are stored in the USR library, such as the Z304 and Z308 records, are in yellow. Records that are stored in the ADM library, such as Z36, are colored differently.
- Each relationship has a name which includes the names of the related fields using the following convention: Oracle table name1\_Field1\_Oracle table name2\_Field2.
- Most relationships are one-to-many relationships. The  icon identifies the 'to-many' side of the connection. Where the relationship is one-to-one, a \*\*\* mark is added to the name of the relationship.
- Dashed lines symbolize optional relationships; solid lines symbolize mandatory relationships.

### 3 Full Relationship

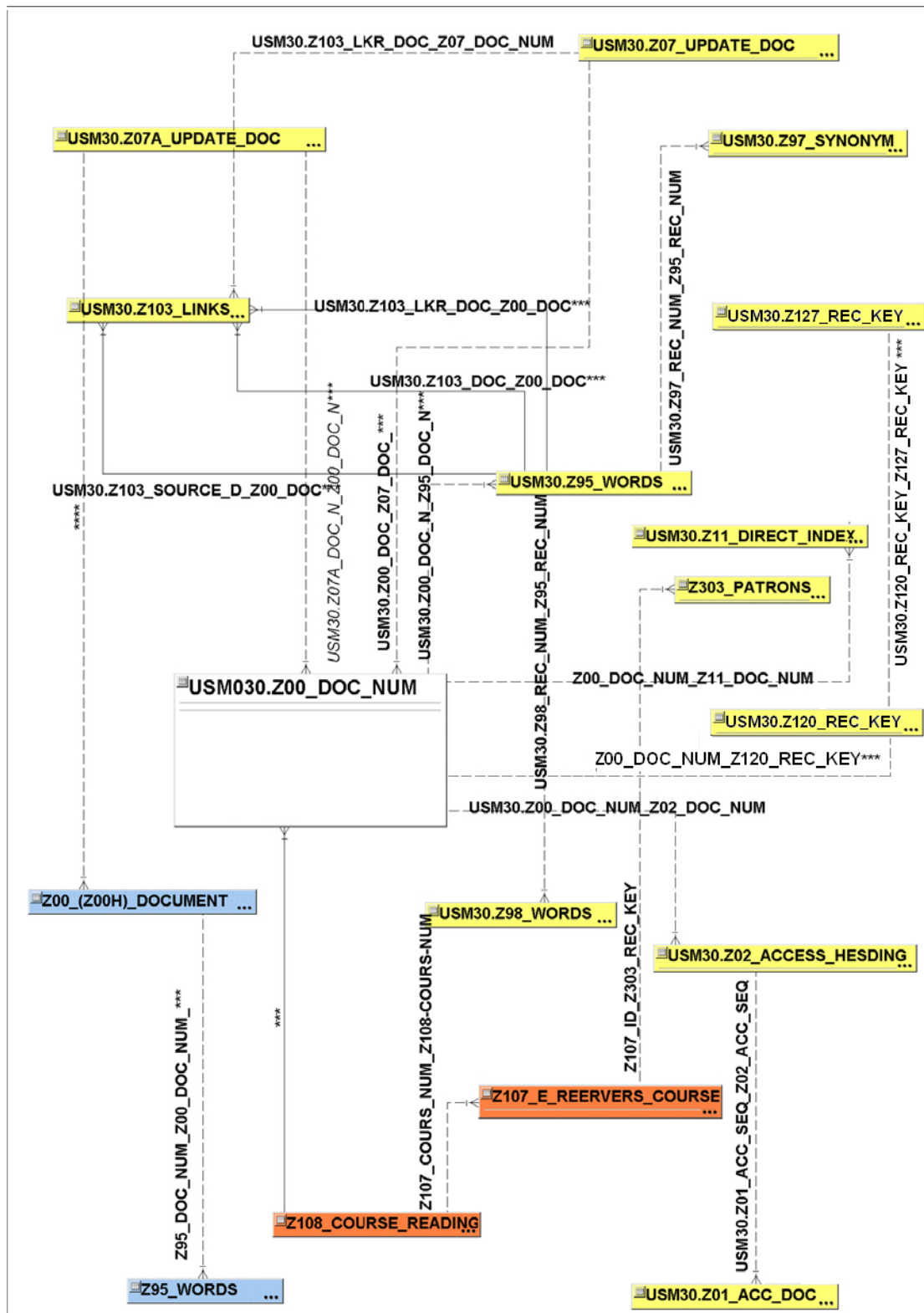
The diagrams in this chapter display the central entity's full relationships map. Below are the Entity Relationship Diagrams.



### 3.2 ADM + HOL Document

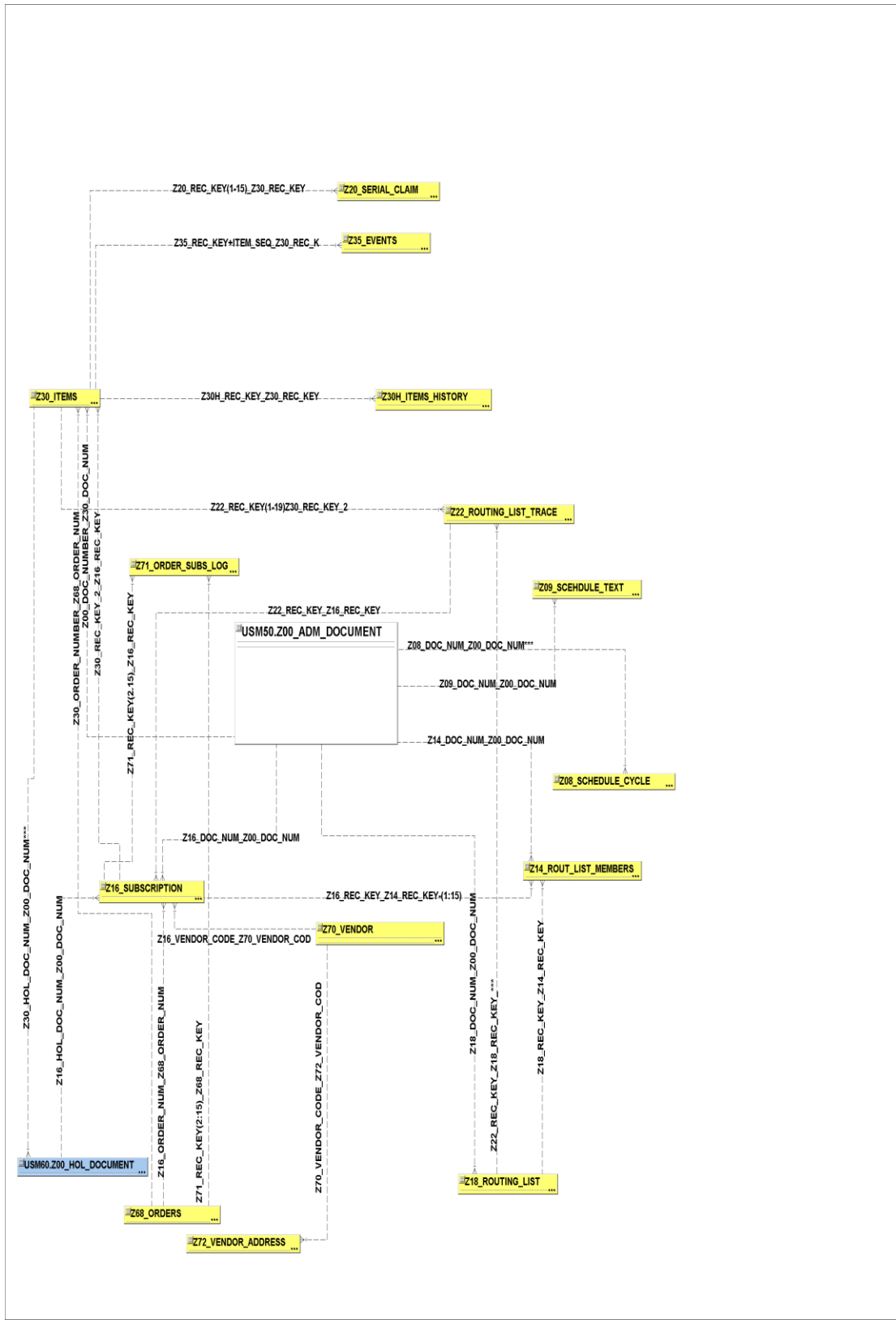


### 3.3 Course Reading

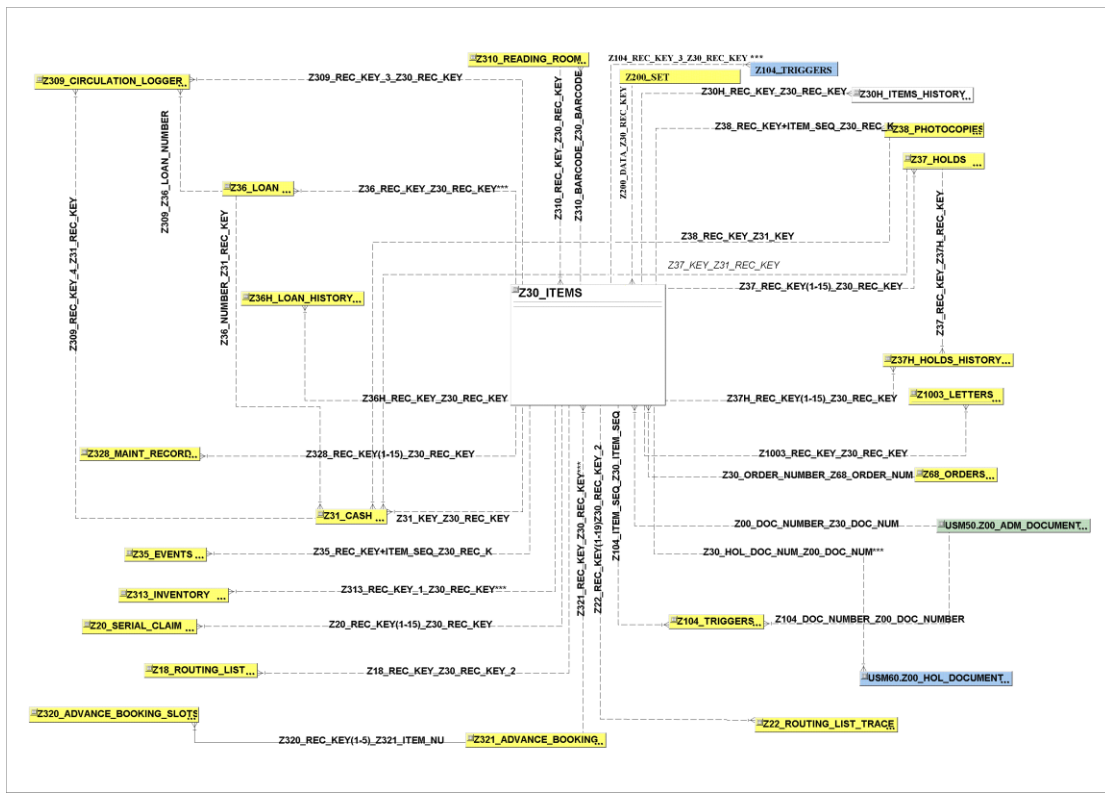




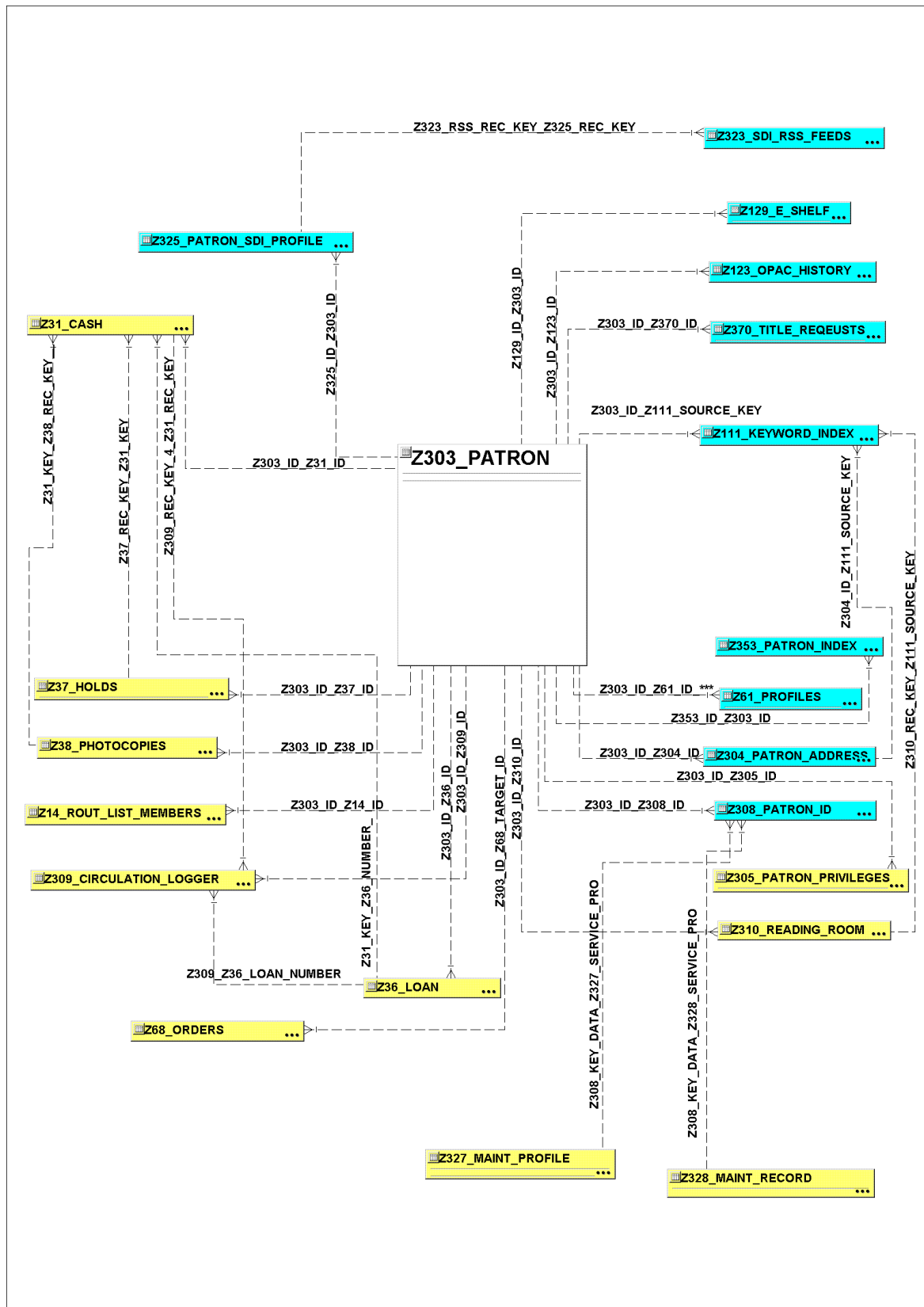
### 3.5 Serial Subscriptions



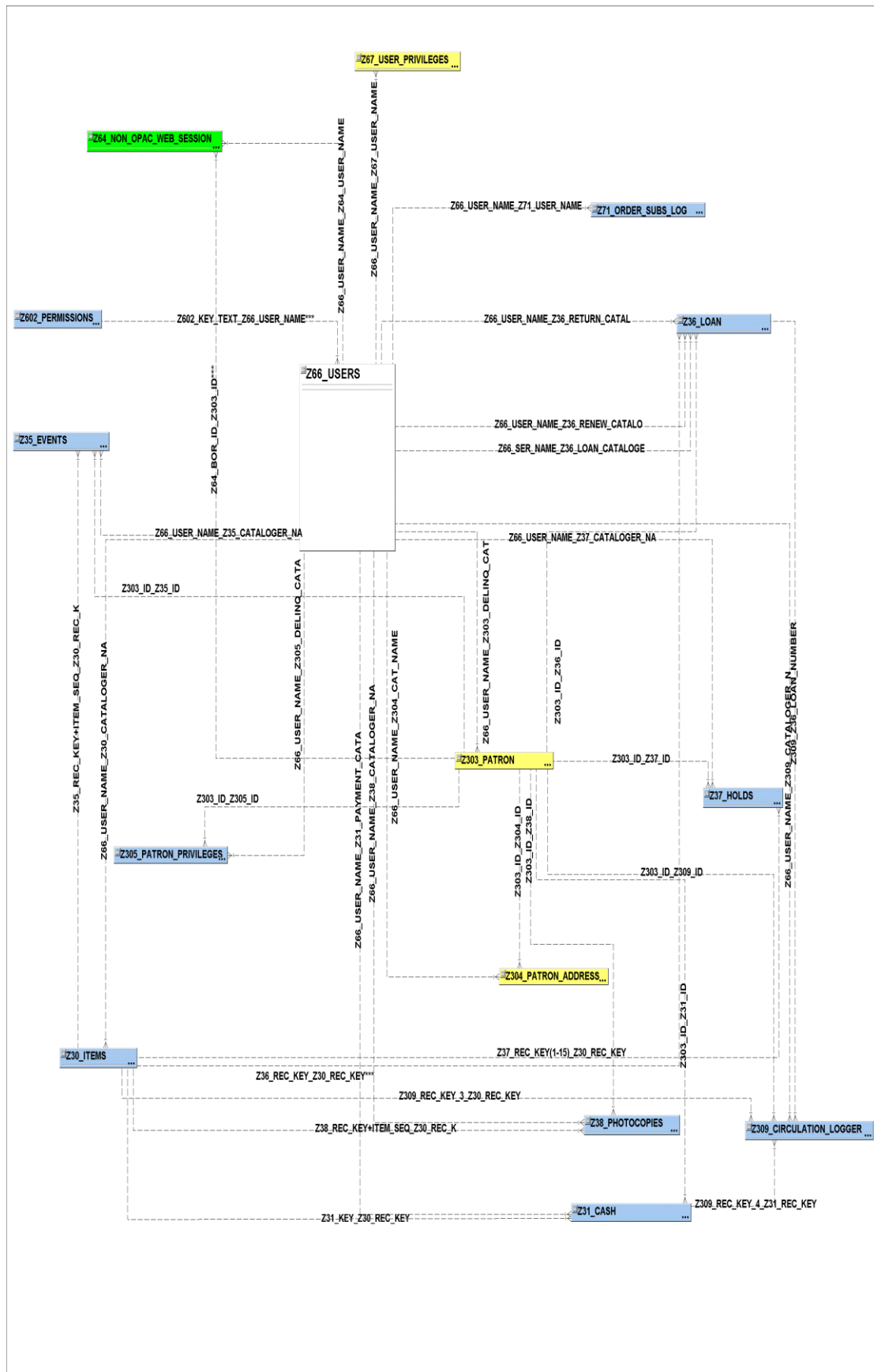
### 3.6 Circulation + Items



### 3.7 Patrons



### 3.8 Staff User

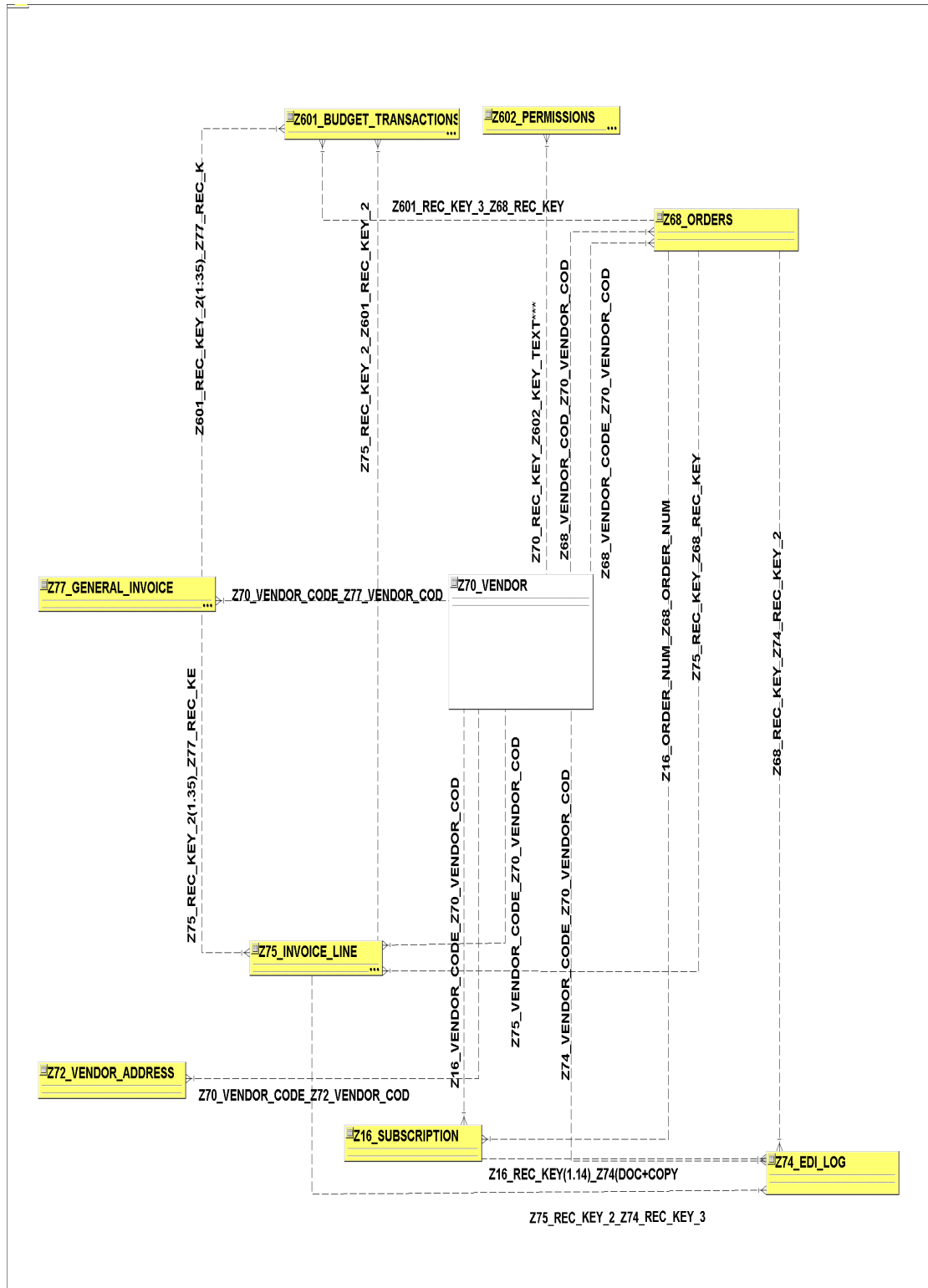




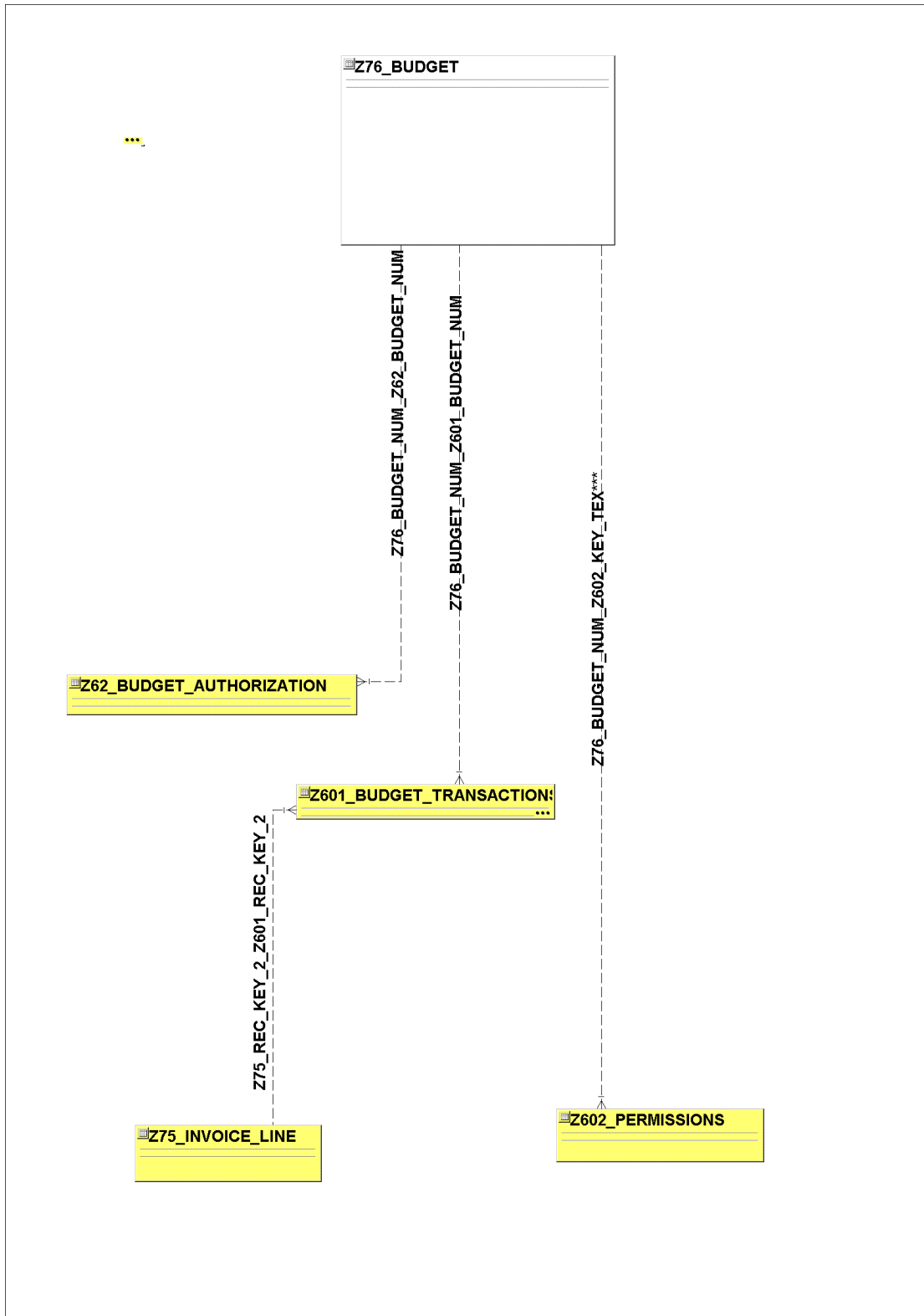




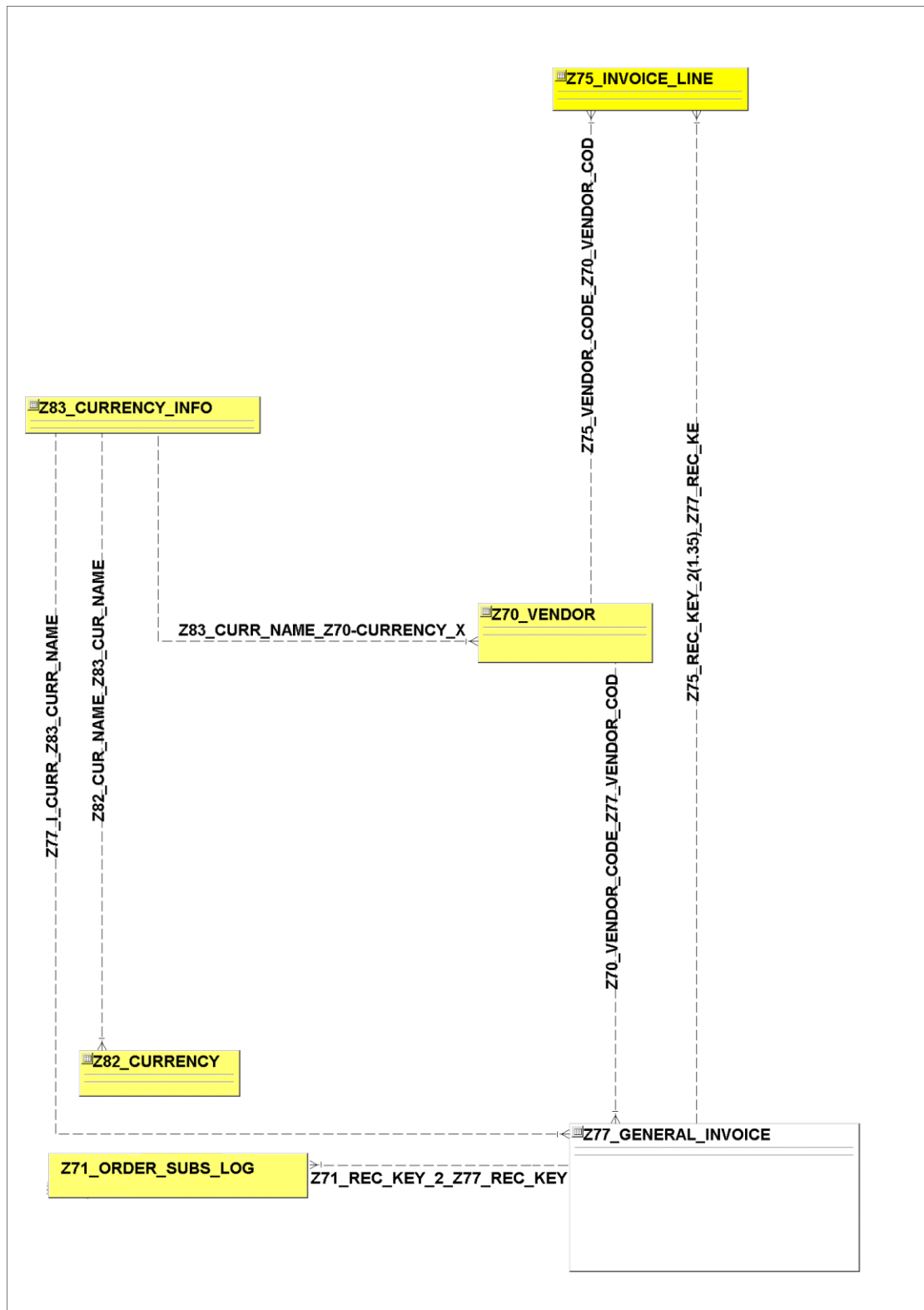
## 4.2 Vendors



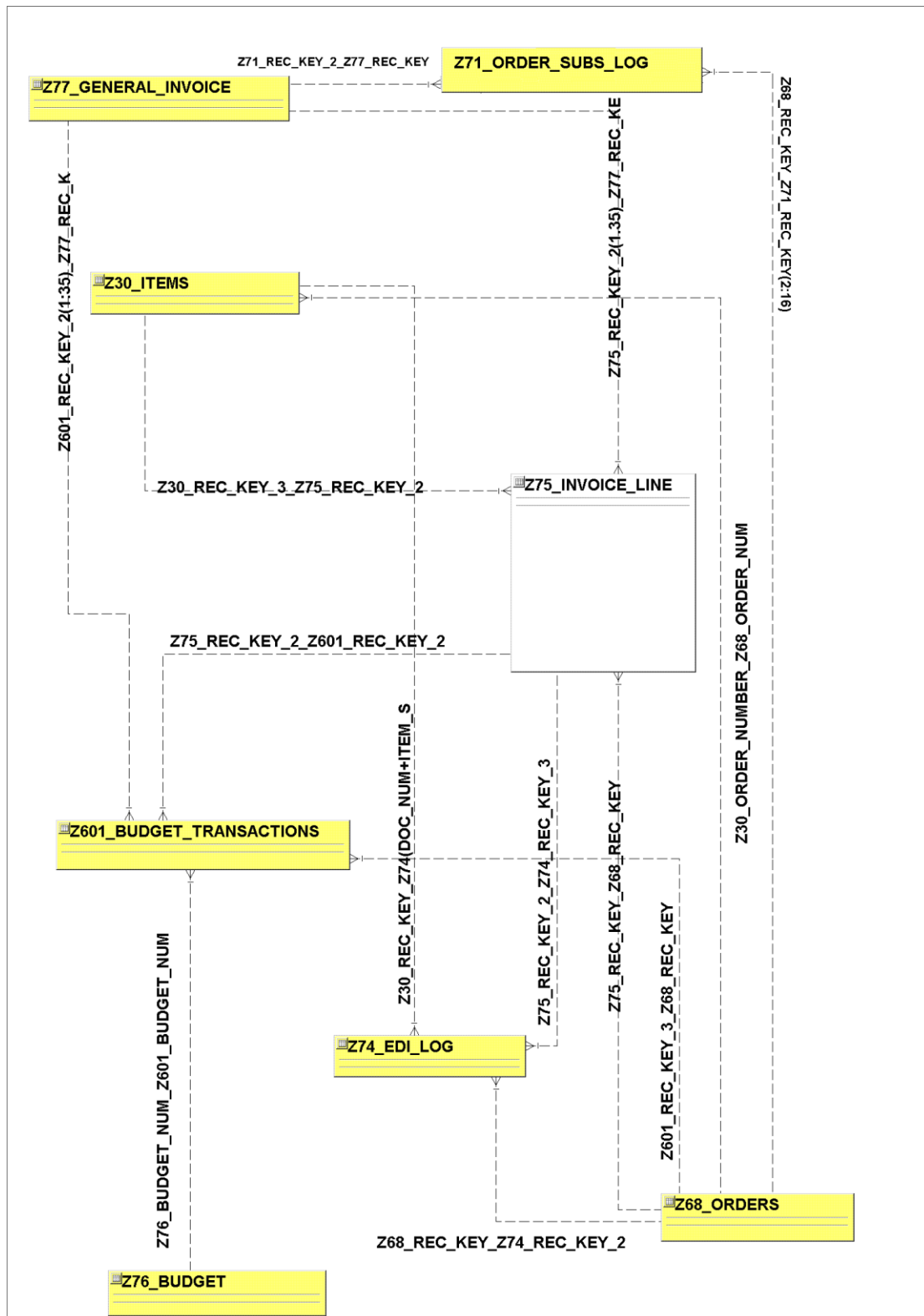
### 4.3 Budgets



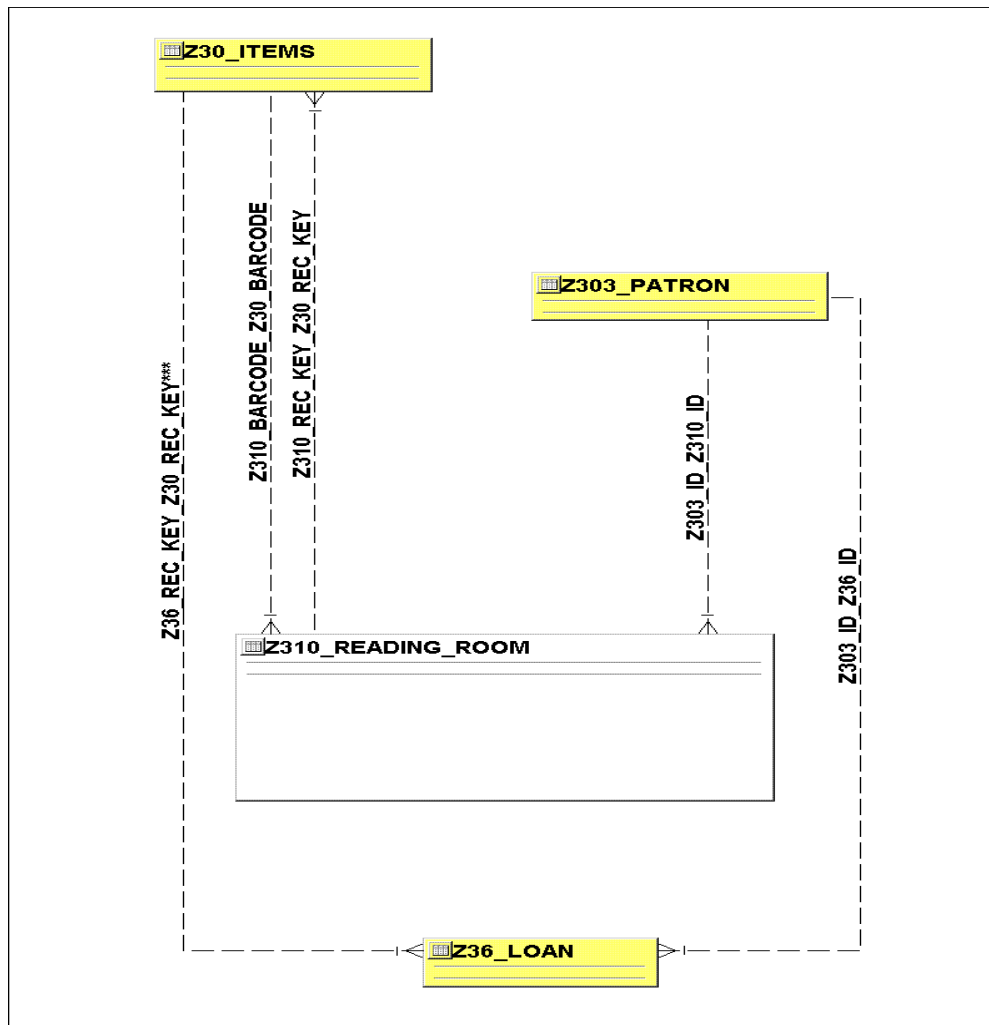
## 4.4 General Invoice



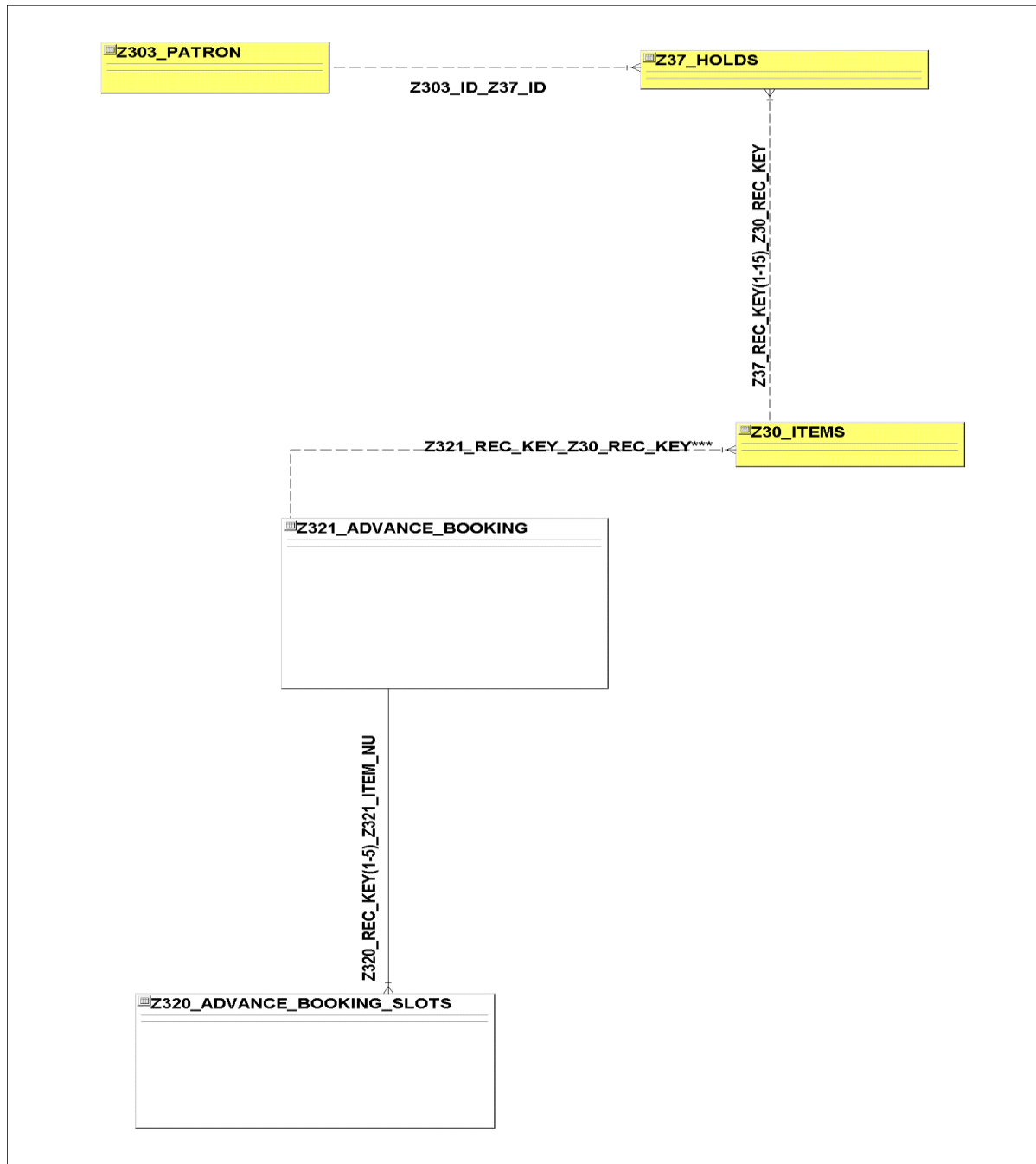
## 4.5 Invoice Line



## 4.6 Reading Room



## 4.7 Advance Booking



## 4.8 Cash

