

## 1.1 Physical Data Model

This section describes the database tables that are needed for the Transaction component. For the eSciDoc Technical Prototype a PostgreSQL database will be used for tables that are *not* part of Fedora. Therefore the terminology here (e.g. for the type names) will be according to the PostgreSQL dialect.

All tables for the eSciDoc Technical Prototype can be found in schema `prototype`.

### 1.1.1 Table transactions

Name	Type	Key	Not Null	Default
transaction_id	BIGINT	Primary Key	Yes	-
creation_date	DATE	-	Yes	-
last_try_date	DATE	-	Yes	-
status	VARCHAR(1)	-	Yes	N
tries	INTEGER	-	Yes	0

### 1.1.2 Table transaction\_lines

#### 1.1.2.1 Table

Name	Type	Key	Not Null	Default
transaction_line_id	BIGINT	Primary Key,	Yes	-
transaction_id	BIGINT	Foreign Key: transaction_fk	Yes	-
Temporary_file_id	VARCHAR(255)	-	Yes	FALSE
uploaded	BOOLEAN		Yes	
filename	VARCHAR(255)		Yes	
pid	VARCHAR(255)		No	

#### 1.1.2.2 Foreign Keys

Name	Field	Foreign Key Table	On Field	On Update	On Delete
transaction_fk	transaction_id	transaction	transaction_id	Cascade	Cascade