# Which database engines are used.

SQL and Neo4J

# How data is modeled

In SQL, there are 4 tables:

AUTHOR(author\_id:Int, author\_name:Varchar(512)))

BOOK(book\_id:Int,author\_id:Int,book\_name(Varchar(200)))

CITY(city\_id:Int, city\_name(varchar(200)),city\_alternate\_name(varchar(200)),city\_lat(decimal(10,5)),city\_lng(10,5)))

APPEARANCE(appearance\_id:Int,book\_id:Int,city\_id:Int)

In Neo4J there are 3 nore labels: Author, Book, City with the following relationships

Author-Wrote->Book

City-Appears\_in->Book

# How data is imported

For SQL, the details about how data is imported can be found in the files import\_city.php, import\_book.php.

And for Neo4j, they can be found in the file query\_neo4j.php in the methods: importCityToNeo4j(); and importBookNeo4j();

# Your recommendation, for which database engine to use in such a project for production

Based on the test results and also on the ease of implementation, we recommend using Neo4j