Standard solution:

```
sales-staff (stuff-id, name, position)
transaction (date, time, staff-id(not null))
book (ISBN, title, author_id(not null), price)
sale (date, time, stuff-id, ISBN, copies)
category (category-id, category name)
belong-to (ISBN, category-id)
include (super-category-id, sub-category-id)
author(author-id, name)
author_Email(author-id, Email)
writes(author-id, ISBN)
```

Grading criteria:

- 1. There are totally 10 relations above. If you miss some of them, you lose 10 marks for each of losing relations.
- 2. For each relation, if you give extra attributes (not a primary key/foreign key) or miss some attributes (not a primary key/foreign key), you lose 1 marks for each of them.
- 3. For each relation, if you give extra attributes (a primary key/foreign key) or miss some attributes (a primary key/foreign key), you lose 2 marks for each of them.
- 4. For each relation, if you mistakenly underline an attribute that is not a primary key or foreign key, or if you do not underline an attribute that is a primary key or foreign key, then you lose 2 marks for each of such mistakes
- 5. For not-null constraints, there are totally 2 constraints. The first one is the "author_id" in the relation "book". The second not-null constraint is the "staff_id" in the relation "transaction". No matter you write "author_id" in the relation "book" or not, no score will be deducted here. For "staff_id" in "transaction", if you do not specify the not nullconstraint, no score will be deducted.

(Note: The grading strategy is modified just because that some of you get the score with a wrong answer and we want to make it fair for all of you, it does not mean that the standard solution provided above is not correct)