

We use MySQL Workbench to design our ERD model. Since the diagram contains all relation, column names, types and keys. So we submit one diagram as ERD model and Schema.

# Some notations you need to know:

- is a blue lined filled diamond so it's a NOT NULL simple attribute
- is a red colored filled diamond so it's a NOT NULL Foreign Key
- is a blue lined not filled diamond so it's a simple attribute which can be NULL
- is a red colored not filled diamond so it's a Foreign Key which can be NULL

### Manuscript:

Primary Key: idManuscript;

Foreign Key:idAuthor, idEditor and idRICodes;

Nullable: typesetPage and idEditor;

#### Author:

Primary Key: idAuthor; Foreign Key: Null; Nullable: affliation:

### Editor:

Primary Key: idEditor; Foreign Key: Null; Nullable: Null:

## Assignment:

Primary Key: idManuscript, idReviewer;

Foreign Key: idManuscript, idReviewer, idFeedback;

Nullable: idFeedback;

### Reviewer:

Primary Key: idReviewer;

Foreign Key: Null; Nullable: affliation;

### Assignment:

Primary Key: idManuscript, idReviewer;

Foreign Key: idFeedback; Nullable: idFeedback;

#### Feedback:

Primary Key: idFeedback;

Foreign Key: Null; Nullable: Null;

## Typesetting:

Primary Key: idManuscript, publicationYear, publicationPeriod; Foreign Key: idManuscript, publicationYear, publicationPeriod;

Nullable: Null;

### Issue:

Primary Key: publicationYear, publicationPeriod

Foreign Key: Null; Nullable: printDate

## RICodes:

Primary Key: idRICodes, idReviewer; Foreign Key: idRICodes, idReviewer;

Nullable: Null;

## InterestList:

Primary Key: idRICodes, publicationPeriod

Foreign Key: Null; Nullable: printDate

In Authors and Reviewers tables, we assume that they can be independent researchers who has no affiliation, therefore the affiliation attribute can be null.

In Assignments table, we assume that idFeedback will be filled only after the editor has received the feedback from the reviewer who has been assigned to review this manuscript.

In Issues table, it would be more convenient to use just publication year and publication period to unique identify one issue which combined publicationYear, publicationPeriod as a compound primary key.