Database System

LAB 2A - Part 2 - Schema Design

Team: DBTEAM 12 (Sunishka Jain and Ashmita Kunwar)

Tables that are included in our database are listed below.

- Manuscript
- Manuscript feedback
- 3. Manuscript status
- 4. Author
- 5. Author order
- 6. RICodes
- 7. Reviewer
- 8. Reviewer_interest
- 9. Journal
- 10. Editor

Schema:

- Manuscript (manuscript_int INT (PK), idmanuscript_status INT (FK) | Icode_icodeID INT (FK), Manuscript_title VARCHAR(120), Manuscript_DateReceived DATETIME,
 ManuscriptFeedback_manuscriptFeedback_id INT (FK), Journal_idJournal INT (FK)
- Manuscript_feedback (idManuscript_feedback INT (PK), Reviewer_idReviewer INT (FK), Appropriateness INT, Clarity INT, Methodology INT, Experimental_results INT, Manuscript_manuscript_status INT (FK), Manuscript_lcode_icodeID INT, Manuscript_feedback_received_date DATETIME))
- Manuscript_status(idManuscript_status INT (PK), status VARCHAR(45))
- Author(author_id INT (PK), author_fname VARCHAR(25), author_lname VARCHAR(25), author_email VARCHAR(45) Nullable, author_affilation VARCHAR(45))
- Author_order(Manuscript_idManuscript INT (FK), Author_idAuthor INT (FK), order_number INT)
- 6. RICodes(icodeID MEDIUMINT(3)(PK), icode_interest VARCHAR(64))

- 7. **Reviewer**(reviewer_id INT(PK), reviewer_fname VARCHAR(25), reviewer_lname VARCHAR(25), reviewer_email VARCHAR(45), reviewer_affiliation VARCHAR(45))
- Reviewer_interest(ReviewerInterest_id INT (PK), RICodes RICodesID INT (FK))
- 9. Journal(idJournal INT (PK), Journal_edition INT, Journal_pages INT nullable)
- Editor(idEditor INT, fname VARCHAR(25), Iname VARCHAR(25), email VARCHAR(45) nullable)

Conditions/ Assumptions:

- As mentioned in the domain description, a single author can co-author multiple manuscripts. Therefore, the relationship between author and author_order is 1 to many, i.e one author can have multiple author orders.
- We assume that exactly the same review does not come from multiple reviewers, so the relationship between reviewer and manuscript_feedback is: 1 reviewer gives zero or many feedbacks.
- 3. Scenario: In cases where multiple authors are involved in the single manuscript, order has to be maintained. So, a separate table named 'author_order' has been designed where we will store the order_number. Author whose order_number is '1' will be considered as the primary author whose email address will be stored.
- 4. Manuscript and Author have many to many relationships, therefore, we have designed a bridge table named "Author_order", to handle that case.