

Database System

LAB 2B - Functional Dependencies

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Functional Dependencies:

- manuscript_id→manuscript_title
- manuscript_id→manuscript_dateReceived
- manuscript_id→manuscript_status
- manuscript_id→lcode_icode
- manuscript_id→manuscript_date_of_acceptance
- manuscript_id→manuscript_JournalBeginningPageNumber
- Manuscript_id→manuscript_recordedPages
- manuscript_id→manuscript_order
- Author_id→person_id
- Reviewer_id→Person_id
- Reviewer_id → reviewer_interest_codes

Since a single reviewer has multiple icode (1 to 3), we needed a separate table to handle named ReviwerInterest which will connect reviewer and icode table as follows.

- ReviewerInterest_id→Reviewer_reviewerID
- ReviewerInterest_id→RICodes_RICodesID
- Editor_id → Person_id

*Reviewer, Author and Editor have the same information so we created a separate table named **Person** from where we will receive all the common information as such.*

- Person_id→Person_fname
- Person_id→Person_lname
- Person_id→Person_email
- Person_id→Person_affiliation

As mentioned in the domain description, we are supposed to maintain the author order number if the manuscript has multiple authors. For that, table **Author_order** is designed as follows

- Manuscript_manuscriptId, Author_authorId→authorOrder_orderNumber
- lcode_id→lcode_interest
- manuscriptStatus_id→status

- Manuscript_manuscript_id, reviewer_reviewerID→Appropriateness
- Manuscript_manuscript_id, reviewer_reviewerID→Clarity
- Manuscript_manuscript_id, reviewer_reviewerID→Methodology
- Manuscript_manuscript_id, reviewer_reviewerID→Experimental_results
- Manuscript_manuscript_id, reviewer_reviewerID→ManuscriptFeedback_receivedDate
- Manuscript_manuscript_id, reviewer_reviewerID→manuscriptTotalScore