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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| USERS | ID | User Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | EMAIL | Unique email address | VARCHAR | XXXX@XX.XX |  | Y |  |  |
|  | PASSWORD | Password | VARCHAR | XXXXXX |  | Y |  |  |
|  | NAME | First name | VARCHAR | XXXX XXXX |  | Y |  |  |
|  | EMAIL\_VERIFIED\_AT | Verification of email | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  |  |  |  |
|  | UNI\_ID\_NUM | Id number of your school id | VARCHAR | XXXXX |  |  |  |  |
|  | USER\_PNUM | Phone number | VARCHAR | 09XXXXXXXXX |  |  |  |  |
|  | USER\_PIC | Profile picture | VARCHAR |  |  |  |  |  |
|  | USER\_ABOUTME | About me content | VARCHAR | XXXXX |  |  |  |  |
|  | USER\_TYPE | Account Type: Student, Teacher, Admin | VARCHAR | XXXXX |  | Y |  |  |
|  | USER\_STATUS | Account Status: Active, Deactivated, Suspended | VARCHAR | XXXXX |  | Y |  |  |
|  | USER\_DOB | User date of birth | DATE | MM-DD-YYY |  | Y |  |  |
|  | IS\_AFFILIATED | 1 if user has university connection, 0 if not | TINYINT | 1 |  |  |  |  |
|  | IS\_PREMIUM | 1 if premium, 0 if not | TINYINT | 1 |  | Y |  |  |
|  | GOOGLE\_USER\_ID | Unique id to connect google account | VARCHAR | XXXXX |  |  |  |  |
|  | GOOGLE\_ACCESS\_TOKEN | Token for access of google services | VARCHAR | XXXXXX |  |  |  |  |
|  | GOOGLE\_REFRESH\_TOKEN | Token use to regenerate access token | VARCHAR | XXXXXXXX |  |  |  |  |
|  | GOOGLE\_TOKEN\_EXPIRY | Expiration date for access token | DATETIME | YYYY-MM-DD hh:mm:ss |  |  |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| STUDENTS | ID | Student Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | UNI\_BRANCH\_ID | University Branch Id | BIGINT | 999999 | 1-999999 |  | FK | UNIVERSITY\_BRANCHES |
|  | SECTION\_ID | Student section or class | BIGINT | 999999 | 1-999999 |  | FK | SECTIONS |
|  | COURSE | Student course | VARCHAR | XXXXX |  |  |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FACULTIES | ID | Teacher Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | UNI\_BRANCH\_ID | University Branch Id | BIGINT | 999999 | 1-999999 |  | FK | UNIVERSITY\_BRANCHES |
|  | COURSE\_ID | Course Id | BIGINT | XXXXX |  |  | FK | COURSES |
|  | FACULTY\_POSITION | Faculty staff position | VARCHAR | XXXXX |  |  |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| INSTITUTION\_ADMINS | ID | Institution Admin Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id of the institution id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | INSUB\_ID | Institutional Subscription Id | BIGINT | 999999 | 1-999999 | Y | FK | INSTITUTION\_SUBSCRIPTIONS |
|  | INS\_ADMIN\_PROOF | A proof that they are part of the institution |  |  |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| UNIVERSITIES | ID | University Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | UNI\_NAME | Unique university name | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| UNIVERSITY\_BRANCHES | ID | University branch Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | UNI\_ID | University Id | BIGINT | 999999 | 1-999999 | Y | FK | UNIVERSITIES |
|  | UNI\_BRANCH \_NAME | University branch name | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATE\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| DEPARTMENTS | ID | Department Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | UNI\_BRANCH\_ID | Associated university branch id | BIGINT | 999999 | 1-999999 | Y | FK | UNIVERSITY\_BRANCHES |
|  | DEPT\_NAME | Department name | VARCHAR | XXXXX |  | Y |  |  |
|  | ADDED\_BY | Username that adds the department | VARCHAR | XXXXX |  |  |  |  |
|  | DEPT\_ACRONYM | Department acronym | VARCHAR | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| COURSES | ID | Course Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | DEPT\_ID | Department Id | BIGINT | 999999 | 1-999999 | Y | FK | DEPARTMENTS |
|  | COURSE\_NAME | Program/Course name | VARCHAR | XXXXX |  | Y |  |  |
|  | ADDED\_BY | User that add the course | VARCHAR | XXXXX |  |  |  |  |
|  | COURSE\_ACRONYM | Course acronym | VARCHAR | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| SECTIONS | ID | Section Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | COURSE\_ID | Course Id | BIGINT | 999999 | 1-999999 |  | FK | COURSES |
|  | USER\_ID | User Id of assigned faculty | VARCHAR | XXXXX |  | Y | FK | USERS |
|  | SECTION\_NAME | Section name | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| GROUPS | ID | Group Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | TASK\_ID | Task Id | BIGINT | 999999 | 1-999999 |  | FK | ASSIGNED\_TASKS |
|  | SECTION\_ID | Section Id | BIGINT | 999999 | 1-999999 |  | FK | SECTIONS |
|  | GROUP\_NAME | Group name | VARCHAR | XXXXX |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| GROUP\_MEMBERS | ID | Group Members Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | GROUP\_ID | Group Id | BIGINT | 999999 | 1-999999 | Y | FK | GROUPS |
|  | STUD\_ID | Student user Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | SECTION\_ID | Section Id | BIGINT | 999999 | 1-999999 |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| ASSIGNED\_TASKS | ID | Revision History Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | SECTION\_ID | Section Id | BIGINT | 999999 | 1-999999 | Y | FK | SECTIONS |
|  | TASK\_TITLE | Instructor’s comment | VARCHAR | XXXXX |  | Y |  |  |
|  | TASK\_INSTRUCTIONS | Task instructions | TEXT | XXXXX |  |  |  |  |
|  | TASK\_DUEDATE | Task due date | DATETIME | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | TASK\_START\_DATE | Task start date | DATETIME | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date revised | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| MANUSCRIPT\_COMMENTS | ID | Manuscript comment Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | MANUSCRIPT\_ID | Capstone Manuscript Id | BIGINT | 999999 | 1-999999 | Y | FK | MANUSCRIPTS |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | FACULTIES |
|  | PARENT\_ID | Parent comment ID for replies | BIGINT | 999999 | 1-999999 |  |  |  |
|  | BODY | Comment body | TEXT | XXXXX |  |  |  |  |
|  | CONTENT | Comment content | TEXT | XXXXX |  |  |  |  |
|  | COMMENTABLE\_TYPE | Comment Type | VARCHAR | XXXXX |  | Y |  |  |
|  | DELETED\_AT | Date deleted | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| MANUSCRIPT\_RATINGS | ID | Manuscript comment Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | MANUSCRIPT\_ID | Capstone Manuscript Id | BIGINT | 999999 | 1-999999 | Y | FK | MANUSCRIPTS |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | RATING | Manuscript Rating | TINYINT | 5 |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| MANUSCRIPTS | ID | Capstone document Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | GROUP\_ID | Group Id | BIGINT | 999999 | 1-999999 | Y | FK | GROUPS |
|  | SECTION \_ID | Section Id | BIGINT | 999999 | 1-999999 |  | FK | SECTIONS |
|  | MAN\_DOC\_TITLE | Capstone manuscript title | VARCHAR | XXXXX |  | Y |  |  |
|  | MAN\_DOC\_DESCRIPTION | Like a rationale, abstract or summary | VARCHAR | XXXXX |  |  |  |  |
|  | MAN\_DOC\_CONTENT | Pdf/docs of capstone manuscript | VARCHAR | XXXX |  | Y |  |  |
|  | MAN\_DOC\_STATUS | Manuscript Status: Approved, Rejected, Published, Draft | VARCHAR | X |  | Y |  |  |
|  | MAN\_DOC\_ADVISER | Capstone adviser name | VARCHAR | XXXXX |  |  |  |  |
|  | MAN\_DOC\_VIEW\_COUNT | How many visited the manuscript | INT | 9 |  |  |  |  |
|  | MAN\_DOC\_VISIBILITY | Manuscript visibility |  |  |  |  |  |  |
|  | IS\_PUBLISHED | Is manuscript publish | TINYINT | 0 |  | Y |  |  |
|  | MAN\_DOC\_RATING | Capstone manuscript rating | DECIMAL | 0.0 |  |  |  |  |
|  | UPDATED\_AT | Date modified | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| REVISION\_HISTORY | ID | Revision History Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | MANUSCRIPT\_ID | Capstone Document Id | BIGINT | 999999 | 1-999999 | Y | FK | MANUSCRIPT |
|  | INS\_ID | Instructor Id | BIGINT | 999999 | 1-999999 | Y | FK | FACULTIES |
|  | GROUP\_ID | Group Id | BIGINT | 999999 | 1-999999 | Y | FK | GROUPS |
|  | SECTION\_ID | Section Id | BIGINT | 999999 | 1-999999 |  | FK | SECTIONS |
|  | INS\_COMMENT | Instructor’s comment | VARCHAR | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date revised | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 15: AUTHOR Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| AUTHOR | ID | Student user Id | BIGINT | 999999 | 1-999999 | Y | PK1, FK1 | STUDENT |
|  | MAN\_DOC\_ID | Capstone document Id | BIGINT | 999999 | 1-999999 | Y | PK2, FK2 | CAPSTONE\_DOC |
|  | USER\_ID |  |  |  |  |  |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| TAGS | ID | Tag Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | TAGS\_NAME | Tag name | VARCHAR | XXXXX |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| MANUSCRIPT\_TAG | ID | Tag Id | BIGINT | 999999 | 1-999999 | Y | PK | TAG |
|  | MANUSCRIPT\_ID | Capstone manuscript Id | BIGINT | 999999 | 1-999999 | Y | FK | MANUSCRIPTS |
|  | TAG\_ID | Tag Id | BIGINT | 999999 | 1-999999 | Y | FK | TAGS |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| SUBSCRIPTION\_PLANS | ID | Subscription plan Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | PLAN\_NAME | Subscription plan name | VARCHAR | XXXXX | 1-999999 | Y |  |  |
|  | PLAN\_PRICE | Subscription plan price | DECIMAL | 0.0 |  | Y |  |  |
|  | PLAN\_TERM | Subscription plan term | INT | 0 |  | Y |  |  |
|  | PLAN\_TYPE | Type: Personal, Institutional | VARCHAR | XXXXX |  | Y |  |  |
|  | PLAN\_TEXT | Plan description | VARCHAR | XXXXX |  |  |  |  |
|  | PLAN\_STATUS | Status: Available, Unavailable | VARCHAR | XXXXX |  | Y |  |  |
|  | PLAN\_USER\_NUM | Default maximum number of user | VARCHAR | XXXXX |  |  |  |  |
|  | PLAN\_DISCOUNT | Plan discount | DECIMAL | 0.0 |  |  |  |  |
|  | FREE\_TRIAL\_DAYS | How many days for free trial | INT | 9 |  |  |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| PERSONAL\_SUBSCRIPTIONS | ID | Personal subscription Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | PLAN\_ID | Plan Id | BIGINT | 999999 | 1-999999 | Y | FK | SUBSCRIPTION\_PLANS |
|  | PERSUB \_STATUS | Status: Active, Paused, Expired, Canceled | VARCHA | X |  | Y |  |  |
|  | NOTIFY\_RENEWAL | 1 to be notified when subscription expires, 0 if not | TINYINT | 1 |  |  |  |  |
|  | TOTAL\_AMOUNT | Amount of the subscription | DECIMAL | 0.0 |  | Y |  |  |
|  | START\_DATE | Date subscription started | DATE | YYYY-MM-DD |  | Y |  |  |
|  | END\_DATE | Date subscription ended | DATE | YYYY-MM-DD |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| INSTITUTION\_SUBSCRIPTIONS | ID | Institutional subscription Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | UNI\_BRANCH\_ID | University Branch Id | BIGINT | 999999 | 1-999999 | Y | FK | UNIVERSITY\_BRANCHES |
|  | PLAN\_ID | Plan Id | BIGINT | 999999 | 1-999999 | Y | FK | SUBSCRIPTI0N\_PLANS |
|  | INSUB \_STATUS | Status: Active, Paused, Expired, Canceled | VARCHAR | X |  | Y |  |  |
|  | INSUB\_NUM\_USER | Number of users affiliated | INT | XXXXX |  | Y |  |  |
|  | TOTAL\_AMOUNT | Amount of the subscription | DECIMAL | 0.0 |  |  |  |  |
|  | INSUB\_CONTENT | Csv for the list of users | VARCHAR |  |  |  |  |  |
|  | NOTIFY\_RENEWAL | 1 to be notified when subscription expires, 0 if not | TINYINT | 1 |  |  |  |  |
|  | START\_DATE | Date subscription started | DATE | YYYY-MM-DD |  | Y |  |  |
|  | END\_DATE | Date subscription ended | DATE | YYYY-MM-DD |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| TRANSACTIONS | ID | Transaction Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 |  | FK | USERS |
|  | PLAN\_ID | Subscription Plans Id | BIGINT | 999999 | 1-999999 |  | FK | SUBSCRIPTION\_PLANS |
|  | CHECKOUT\_ID | Checkout session of paymongo | VARCHAR | XXXXX |  |  |  |  |
|  | REFERENCE\_NUMBER | Reference Number of payment | VARCHAR |  |  |  |  |  |
|  | TRANS\_AMOUNT | Total amount | DECIMAL | 0.0 |  |  |  |  |
|  | PAYMENT\_METHOD | Payment method | VARCHAR | XXXXX |  |  |  |  |
|  | TRANS\_STATUS | Status: Pending, Paid, failed | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 22: CHAT Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| CHAT | CHAT\_ID | Chat Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | FROM\_ID | User id of the sender | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | TO\_ID | User id of the receiver | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | CHAT\_MESSAGE | Message contents | VARCHAR(MAX) | XXXXX |  | Y |  |  |
|  | CHAT\_IS\_SEEN | If message is seen 1, else 0 | BOOLEAN | 0 |  |  |  |  |
|  | SENT\_AT | Date sent | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FAVORITES | ID | Favorites Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | MANUSCRIPT\_ID | Capstone Manuscript Id | BIGINT | 999999 | 1-999999 | Y | FK | MANUSCRIPTS |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 24: DOC\_COMMENT Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| DOC\_COMMENT | COMM\_ID | Comment Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User id | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | CAP\_DOC\_ID | Capstone document id | BIGINT | 999999 | 1-999999 | Y | FK | CAPSTONE\_DOC |
|  | COMM\_CONTENT | Comment content | VARCHAR(MAX) | XXXXX |  | Y |  |  |
|  | EDITED\_AT | Date edited | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 25: FORUM Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FORUM | FORUM\_ID | Forum Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | Creator’s user Id | BIGINT | 999999 | 1-999999 | Y |  |  |
|  | FORUM\_TITLE | Forum title | VARCHAR(60) | XXXXX |  | Y |  |  |
|  | FORUM\_DESC | Description of the forum | VARCHAR (MAX) | XXXXX |  |  |  |  |
|  | FORUM\_TYPE | Type: Title Suggestion, Discussion | VARCHAR(30) | XXXXX |  | Y |  |  |
|  | FORUM\_ATTACHMENT | Attachment of the forum | BLOB |  |  |  |  |  |
|  | FORUM\_VIEW\_COUNT | How many visits the forum | INT | 9 |  | Y |  |  |
|  | FORUM\_LIKE\_COUNT | How many like the forum | INT | 9 |  |  |  |  |
|  | FORUM\_STATUS | Type: Solved, Not Solved | VARCHAR(30) |  |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 26: POST Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| POST | POST\_ID | Post Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | FORUM\_ID | Forum Id | BIGINT | 999999 | 1-999999 | Y | FK | FORUM |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | POST\_CONTENT | Post content | VARCHAR(MAX) | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 27: REPLIES Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| REPLIES | REPLIES\_ID | Replies Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | POST\_ID | Post Id | BIGINT | 999999 | 1-999999 |  | FK | POST |
|  | COMM\_ID | Comment Id | BIGINT | 999999 | 1-999999 |  | FK | COMMENT |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | REPLY\_CONTENT | Post content | VARCHAR(MAX) | XXXXX |  |  |  |  |
|  | REPLY\_TYPE | Type: Comment, Post | VARCHAR(1) | X |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 28: FORUM\_TAG Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FORUM\_TAG | FORUM\_ID | Forum Id | BIGINT | 999999 | 1-999999 | Y | PK1, FK1 | FORUM |
|  | TAG\_ID | Tag Id | BIGINT | 999999 | 1-999999 | Y | PK2, FK2 | TAG |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| NOTIFICATIONS | ID | Notification Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | TYPE | Notification Type | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | NOTIFIABLE\_TYPE | Class name of the model | VARCHAR | XXXXX |  | Y |  |  |
|  | NOTIFIABLE\_ID | Id of the instance of notifiable type | VARCHAR | XXXXX |  | Y |  |  |
|  | DATA | Json-encoded array | TEXT | XXXXX |  | Y |  |  |
|  | READ\_AT | Mark as read date | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 30: FOLLOW Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FOLLOW | FOLLOW\_ID | User’s follower Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | FOLLOWER\_USER\_ID | Follower’s user id | BIGINT | 999999 | 1-999999 |  | FK | USER |
|  | FOLLOWING\_USER\_ID | Following user id | BIGINT | 999999 | 1-999999 |  | FK | USER |
|  | FOLLOWED\_AT | Date added | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table 31: SUBSCRIPTION\_HISTORY Table** | | | | | | | | |
| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| SUBSCRIPTION\_HISTORY | SUB\_HIS\_ID | Subscription History Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | INSUB\_ID | Institutional Subscription Id | BIGINT | 999999 | 1-99999 |  | FK | INSTITUTIONAL\_SUBSCRIPTION |
|  | PERSUB\_ID | Personal Subscription Id | BIGINT | 999999 | 1-99999 |  | FK | PERSONAL\_SUBSCRIPTION |
|  | ACTIVITY | Description of the activity | VARCHAR(MAX) | XXXXX |  |  |  |  |
|  | SUB\_HIS\_TYPE | Type: Institutional, Personal | VARCHAR(30) | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date created | DATETIME | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| USER\_LOGS | LOG \_ID | User history Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | ACTIVITY | Description of the activity | VARCHAR | XXXXX |  | Y |  |  |
|  | LOG\_ACTIVITY\_CONTENT | Content of the activity | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| FEEDBACKS | ID | Feedback Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | FEEDBACK\_RATING | User rating | INT | 9 |  |  |  |  |
|  | FEEDBACK\_CONTENT | User’s suggestion | TEXT | XXXXX |  |  |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| REPORTS | ID | Report Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | REPORTER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | REPORTED\_ID | Id of the reported content | BIGINT |  |  | Y | FK | USERS |
|  | REPORT\_TYPE | Reason for the submitted report | VARCHAR | XXXXX |  | Y |  |  |
|  | REPORT\_ATTACHMENT | Screenshots or evidence | VARCHAR | XXXXX |  |  |  |  |
|  | REPORT\_STATUS | Status: Closed, For Review, Solved | VARCHAR | XXXXX |  | Y |  |  |
|  | REPORT\_LOCATION |  | VARCHAR | XXXXX |  | Y |  |  |
|  | REPORT\_DESC |  | VARCHAR | XXXXX |  |  |  |  |
|  | CLOSED\_AT | Date Solved or closed | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | CREATED\_AT | Date submitted | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | SUSPENSION\_START\_DATE | Start date of suspension | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  |  |  |  |
|  | SUSPENSION\_END\_DATE | End date of suspension | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  |  |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| REPORTS\_TYPES | ID | Report Reason Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | Created By User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | REPORT\_TYPE\_CONTENT | Description of the reason | VARCHAR | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| ACCESS\_CONTROLS | ACCESS\_ID | Access Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | User Id | BIGINT | 999999 | 1-999999 | Y | FK | USERS |
|  | ROLE | User role | VARCHAR | XXXX |  | Y |  |  |
|  | DASHBOARD\_ACCESS | Permission access to dashboard page | TINYINT | 1 |  | Y |  |  |
|  | USER\_ACCESS | Permission access to user page | TINYINT | 1 |  | Y |  |  |
|  | ARCHIVE\_ACCESS | Permission access to archive page | TINYINT | 1 |  | Y |  |  |
|  | SUBSCRIPTION&BILLING\_ACCESS | Permission access to subscription & billing page | TINYINT | 1 |  | Y |  |  |
|  | REPORTS&FEEDBACK\_ACCESS | Permission access to reports & feedbacks page | TINYINT | 1 |  | Y |  |  |
|  | TERMS&CONDITION\_ACCESS | Permission access to terms and condition page | TINYINT | 1 |  | Y |  |  |
|  | PLAN\_ACCESS | Permission access to plan page | TINYINT | 1 |  | Y |  |  |
|  | FAQ\_ACCESS | Permission access to faq page | TINYINT | 1 |  | Y |  |  |
|  | ADVANCED\_ACCESS | Permission access to advance page | TINYINT | 1 |  | Y |  |  |
|  | CAN\_EDIT | Permission to edit | TINYINT | 1 |  | Y |  |  |
|  | CAN\_ADD | Permission to add | TINYINT | 1 |  | Y |  |  |
|  | CAN\_DELETE | Permission to delete | TINYINT | 1 |  | Y |  |  |

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| **Table** | **Attribute Name** | **Contents** | **Data Type** | **Format** | **Range** | **Required** | **PK or FK** | **FK Referenced Table** |
| CUSTOM\_CONTENTS | ID | Content Id | BIGINT | 999999 | 1-999999 | Y | PK |  |
|  | USER\_ID | Id of the person who added | BIGINT | 999999 | 1-999999 | Y | FK | USER |
|  | CONTENT\_TYPE | Type: Agreement, Receipt, FAQs | VARCHAR | XXXXX |  | Y |  |  |
|  | CONTENT\_TITLE | Title of the content | TEXT | XXXXX |  | Y |  |  |
|  | SUBJECT | Subject of the message | VARCHAR | XXXXX |  | Y |  |  |
|  | CONTENT\_TEXT | Content Description | LONGTEXT | XXXXX |  | Y |  |  |
|  | CREATED\_AT | Date created | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |
|  | UPDATED\_AT | Date updated | TIMESTAMP | YYYY-MM-DD hh:mm:ss |  | Y |  |  |