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| --- | --- | --- |
| Program | program | program\_id: PK, int  name: string(150)  program\_type: int  tuition\_fee: decimal(10, 2)  description: string (500) , nullable |
| staff\_account | staff\_account\_id: PK, int  email: string (60)  password: string (32) hash md5  fname: string (50)  lname: string(100)  phone: string(20) cover all phone line  address: string(355) , nullable  senority: int(2)  citizen\_id\_number: int(20) , nullable  tax\_code: string(20) , nullable, cover all country tax code  bank\_number: int(34) cover all bank  profile\_scan: string(255) |
| department | department\_id: PK, int  name: string(150)  establish date: date(YYYY-MM-DD)  description: string(500) , nullable  staff\_size: int(5) , nullable |
| staff\_department\_junc | staff\_department\_junc\_id: PK, int  staff\_account\_id: FK, int  department\_id: PK, int  start\_at: date(YYYY-MM-DD) |
| student\_account | student\_account\_id: PK, int  email: string (60)  password: string (32) hash md5  fname: string (50)  lname: string(100)  phone: string(20) cover all phone line, nullable  address: string(355) , nullable  program\_id: FK, int  admission\_date: date(YYYY-MM-DD)  graduate\_status: boolean  profile\_scan: string(255) , nullable |
| course | course\_id: PK, int  name: string(250)  staff\_account\_id: FK, int  description: string(500), nullable  duration\_unit: int(1)  semeter: int(1)  year: string(4) |
| enrollment | enrollment\_id: PK, int  student\_account\_id: FK, int  course\_id: FK, int  semeter: int(1)  year: string(4) |
| submission | submission\_id: PK, int  course\_id: PK, int  submission\_type: int(1)  assignment\_id: FK, int , nullable  exam\_id: FK, int , nullable  file: string(255) |
| submission\_student\_junc (in case group submission) | submission\_student\_junc\_id: PK, int  student\_account\_id: FK, int  submission\_id: FK, int |
| exam | exam\_id: PK, int  file: string(255)  result: string(255) |
| assignment | assignment\_id: PK, int  name: string(150)  file: string(255)  result: string(255) |
| grade | grade\_id: PK, int  grade: int(3)  student\_account\_id: FK, int  submission\_id: FK, int |
| schedule | schedule\_id: PK, int  slot: int(1)  course\_id: FK, int  start\_time: datetime(YYYY-MM-DD HH:MM:SS)  end\_time: datetime(YYYY-MM-DD HH:MM:SS) |
| form | form\_id: PK, int  form\_type: int(2)  staff\_account\_id: FK, int, nullable  student\_account\_id: FK, int, nullable  form: string(255), nullable  form\_scan: string(255), nullable |
| feedback | feedback\_id: PK, int  department\_id: FK, int  email: string(150), nullable  feedback: string(max\_size)  attack\_file: string(255) , nullable |
|  |  |  |
| Publication | publication | publication\_id: PK, int  publication\_type: int(1)  title: string(250)  expected\_budget: decimal(10, 2) , nullable  actual\_budget: decimal(10, 2) , nullable |
| publication\_researcher\_junc | publication\_researcher\_junc\_id: PK, int  publication\_id: FK, int  staff\_account\_id: FK, int |
| investor | investor\_id: PK, int  investor\_type: int(1)  name: string(150) |
| investor\_publication\_junc | investor\_publication\_junc\_id: PK, int  investor\_id: PK, int  publication\_id: PK, int  contribution\_amount: decimal(10, 2) |
| event | event\_id: PK, int  expected\_budget: decimal(10, 2) , nullable  actual\_budget: decimal(10, 2) , nullable  description: string(500), nullable |
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| Service | service | service\_id: PK, int  service\_type: int(1)  department\_id: FK, int  description: string(500), nullable |
|  |  |  |
| Resource | document | document\_id: PK, int  document\_type: int(1)  name: string(250)  file: string(255)  create\_date: datetime(YYYY-MM-DD HH:MM:SS) |
| course\_document\_junc | course\_document\_junc\_id: PK, int  course\_id: FK, int  document\_id: FK, int |
| library\_resource |  |
| facility | facility\_id: PK, int  name: string(250)  code: string(20)  department\_id: FK, int  create\_date: datetime(YYYY-MM-DD HH:MM:SS) |
| student\_club | student\_club\_id: PK, int  name: string(150)  member\_size: int(2)  create\_date: datetime(YYYY-MM-DD HH:MM:SS) |
| event\_club\_dept\_junc | event\_stud\_dept\_junc\_id: PK, int  event\_id: FK, int  student\_club\_id: FK, int, nullable  department\_id: FK, int, nullabe |
| student\_club\_junc | student\_club\_junc\_id: PK, int  student\_club\_id: FK, int  student\_account\_id: FK, int |
|  |  |  |
| Finacial | tuition\_fee | tuition\_fee\_id: PK, int  student\_account\_id: FK, int  course\_id: FK, int  amount: decimal(10,2)  due\_date: date(YYYY-MM-DD)  payment\_status: int(1)  payment\_date: date(YYYY-MM-DD)  semester: int(1)  year: int(4) |
|  | transaction | Transaction\_id: PK, int transaction\_type: int(1)  create\_date: datetime(YYYY-MM-DD HH:MM:SS)  description: string(500), nullable  student\_account\_id: FK, int, nullable  staff\_account\_id: FK, int, nullable  payroll\_id: FK, int, nullable  scholaship\_id: FK, int, nullable |
|  | scholarship | scholarship\_id: PK, int  scholarship\_type: int(1)  student\_account\_id: FK, int  amount: decimal(10,2)  award\_date: date(YYYY-MM-DD)  description: string(500), nullable |
|  | payroll | payroll\_id: PK, int  staff\_account\_id: FK, int  amount: decimal(10,2)  pay\_date: date(YYYY-MM-DD)  period\_start: date(YYYY-MM-DD)  period\_end: date(YYYY-MM-DD)  description: string(500), nullable |