Implemented database:

```
/==============================================================/
/* DBMS name: Microsoft SQL Server 2017 */

 /* Created on: 17/05/2024 21:53:47 */
/==============================================================/

if exists (select 1

     from  sysobjects

    where  id = object_id('_CODE_ADMIN')

     and   type = 'U')

  drop table _CODE_ADMIN

go


if exists (select 1

     from  sysobjects

    where  id = object_id('_CODE_BOOK')

     and   type = 'U')

  drop table _CODE_BOOK

go


if exists (select 1

     from  sysobjects

    where  id = object_id('_CODE_BOOKING_SLOT')

     and   type = 'U')

  drop table _CODE_BOOKING_SLOT

go


if exists (select 1

     from  sysobjects

    where  id = object_id('_CODE_BORROW')

     and   type = 'U')

  drop table _CODE_BORROW

go
```

```sql
if exists (select 1
       from  sysobjects
      where  id = object_id('_CODE_JOURNAL')
       and   type = 'U')
   drop table _CODE_JOURNAL
go


if exists (select 1
       from  sysobjects
      where  id = object_id('_CODE_PUBLISHER')
       and   type = 'U')
   drop table _CODE_PUBLISHER
go


if exists (select 1
       from  sysobjects
      where  id = object_id('_CODE_RATES')
       and   type = 'U')
   drop table _CODE_RATES
go


if exists (select 1
       from  sysobjects
      where  id = object_id('_CODE_RESEARCH_PAPER')
       and   type = 'U')
   drop table _CODE_RESEARCH_PAPER
go


if exists (select 1
       from  sysobjects
```

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       where  id = object_id('_CODE_STUDENT')
        and   type = 'U')
   drop table _CODE_STUDENT
go


if exists (select 1
        from  sysobjects
       where  id = object_id('_CODE_USER')
        and   type = 'U')
   drop table _CODE_USER
go


/*===============================================================*/
/* Table: _CODE_ADMIN                           */
/*===============================================================*/
create table _CODE_ADMIN (
   USE_USER_ID       int           not null,
   NAME           varchar(100)       not null,
   AGE           int           not null,
   PASSWORD        varchar(100)       not null,
   EMAIL          varchar(100)       not null,
   SALARY          int           not null,
   constraint PK__CODE_ADMIN primary key nonclustered (USE_USER_ID)
)
go


/*===============================================================*/
/* Table: _CODE_BOOK                           */
/*===============================================================*/
create table _CODE_BOOK (
   USER_ID         int           not null,
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    PUBLISHER_ID      varchar(100)      null,

    ISBN            varchar(50)       not null,

    TITLE           varchar(100)      not null,

    AUTHOR          varchar(100)      not null,

    PUBLICATION_YEAR   char(4)         not null,

    EDITION         int            not null,

    constraint PK__CODE_BOOK primary key nonclustered (USER_ID, ISBN)
)
go


/*================================================================*/
/* Table: _CODE_BOOKING_SLOT                      */
/*================================================================*/
create table _CODE_BOOKING_SLOT (

   SLOT_ID         int            not null,

   SLOT_DATE        datetime         not null,

   SLOT_START_DATE    datetime          not null,

   SLOT_END_DATE     datetime         not null,

   USER_ID         int            not null,

   constraint PK__CODE_BOOKING_SLOT primary key nonclustered (SLOT_ID)
)
go


/*================================================================*/
/* Table: _CODE_BORROW                      */
/*================================================================*/
create table _CODE_BORROW (

   USER_ID         int            not null,

   TRANDATE        datetime         not null,

   RETURNDATE       datetime         not null,

   constraint PK__CODE_BORROW primary key nonclustered (USER_ID)
```

```
)
go


/*===============================================================*/
/* Table: _CODE_JOURNAL                      */
/*===============================================================*/
create table _CODE_JOURNAL (
   JOURNAL_CODE      varchar(50)      not null,
   NAME          varchar(100)      not null,
   IMPACT_FACTORS    numeric        not null,
   LICENSE        varchar(50)      not null,
   VERSION        int          not null,
   PUBLICATION_SCHEDULE datetime        not null,
   LANGUAGE        varchar(50)      not null,
   constraint PK__CODE_JOURNAL primary key nonclustered (JOURNAL_CODE)
)
go


/*===============================================================*/
/* Table: _CODE_PUBLISHER                    */
/*===============================================================*/
create table _CODE_PUBLISHER (
   PUBLISHER_ID      varchar(100)      not null,
   NAME          varchar(100)      not null,
   ISBN          varchar(50)      not null,
   ADDRESS        char(10)        not null,
   constraint PK__CODE_PUBLISHER primary key nonclustered (PUBLISHER_ID)
)
go


/*===============================================================*/
```

```sql
/* Table: _CODE_RATES                           */
/*==============================================================*/
create table _CODE_RATES (
   RATINGS          float(3)         not null,
   USER_ID          varchar(100)        not null,
   BOO_USER_ID      int             not null,
   ISBN             varchar(50)         not null,
   constraint PK__CODE_RATES primary key nonclustered (USER_ID, BOO_USER_ID, ISBN)
)
go


/*==============================================================*/
/* Table: _CODE_RESEARCH_PAPER                      */
/*==============================================================*/
create table _CODE_RESEARCH_PAPER (
   USER_ID          int             null,
   JOURNAL_CODE     varchar(50)         not null,
   TITLE            varchar(100)        not null,
   PUBLISH_DATE     datetime            not null,
   PUBLISHER        varchar(100)        not null,
   constraint PK__CODE_RESEARCH_PAPER primary key nonclustered (JOURNAL_CODE)
)
go


/*==============================================================*/
/* Table: _CODE_STUDENT                        */
/*==============================================================*/
create table _CODE_STUDENT (
   USE_USER_ID      int             not null,
   NAME             varchar(100)        not null,
   AGE              int             not null,
```

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    PASSWORD        varchar(100)      not null,

    EMAIL           varchar(100)      not null,

    FACULTY         varchar(100)      not null,

    constraint PK__CODE_STUDENT primary key nonclustered (USE_USER_ID)

)

go


/*==============================================================*/
/* Table: _CODE_USER                          */
/*==============================================================*/
create table _CODE_USER (

    USER_ID         int               not null,

    NAME            varchar(100)      not null,

    AGE             int               not null,

    PASSWORD        varchar(100)      not null,

    EMAIL           varchar(100)      not null,

    constraint PK__CODE_USER primary key nonclustered (USER_ID)

)

go
```