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Sem : 5

Batch : H3

Topic : OmniLib

Subject : Database Management System

Univ. : Dharmsinh Desai University

Queries for Table Creation

CREATE SCHEMA

1)--------------Verification------------------------------

CREATE TABLE Verification

(

 Verif_id   varchar(50) NOT NULL,

 "Aadhar Card" varchar(20) NULL,

 License   varchar(50) NULL,

 CONSTRAINT PK_215 PRIMARY KEY (Verif_id)

);

2)--------------State--

CREATE TABLE "State"

(

 State_id varchar(5) NOT NULL,

 Statename varchar(50) NOT NULL,

 CONSTRAINT PK_159 PRIMARY KEY (State_id)

);

3)-------------City--

```
CREATE TABLE City
(
 City_name varchar(50) NOT NULL,
 City_id   varchar(50) NOT NULL,
 State_id  varchar(5) NOT NULL,
 CONSTRAINT PK_163 PRIMARY KEY ( City_id),
 CONSTRAINT FK_165 FOREIGN KEY ( State_id )
REFERENCES "State" ( State_id )
);
CREATE INDEX fkIdx_167 ON City
(
 State_id
);
```

4)--------------Library-------------------------------------

```sql
CREATE TABLE "Library"
(
 Address  varchar(500) NOT NULL,
 Funds    numeric(8,2) NOT NULL,
 Lib_name varchar(50) NOT NULL,
 Lib_id   varchar(20) NOT NULL,
 State_id varchar(5) NOT NULL,
 CONSTRAINT PK_52 PRIMARY KEY ( Lib_id),
 CONSTRAINT FK_181 FOREIGN KEY ( State_id )
REFERENCES "State" ( State_id )
);

CREATE INDEX fkIdx_183 ON "Library"
(
 State_id
);
```

5)--------------Admin------------------------------------

CREATE TABLE Admin

(

 "User_id/email_id" varchar(50) NOT NULL,

 Lib_id   varchar(20) NOT NULL,

 State_id   varchar(5) NOT NULL,

 Verif_id   varchar(50) NOT NULL,

 First_name   varchar(50) NOT NULL,

 Last_name   varchar(50) NOT NULL,

 "Phone_Number"   numeric(10,0) NOT NULL,

 Passwrd   varchar(20) NOT NULL,

 Desig   varchar(20) NOT NULL,

 DOB   date NOT NULL,

 CONSTRAINT PK_191 PRIMARY KEY (
"User_id/email_id"),

 CONSTRAINT FK_121 FOREIGN KEY (Lib_id)
REFERENCES "Library" (Lib_id),

 CONSTRAINT FK_208 FOREIGN KEY (State_id)
REFERENCES "State" (State_id),

```sql
 CONSTRAINT FK_231 FOREIGN KEY ( Verif_id )
REFERENCES Verification ( Verif_id )
);


CREATE INDEX fkIdx_124 ON Admin
(
 Lib_id
);
CREATE INDEX fkIdx_210 ON Admin
(
 State_id
);


CREATE INDEX fkIdx_233 ON Admin
(
 Verif_id
);
```

6)--------------Employee------------------------------

```sql
CREATE TABLE Employee
(
 Desig     varchar(20) NOT NULL,
 First_name varchar(20) NOT NULL,
 Last_name  varchar(20) NOT NULL,
 Salary     numeric(5,2) NOT NULL,
 Emp_id     varchar(10) NOT NULL,
 Lib_id     varchar(20) NOT NULL,
 CONSTRAINT PK_187 PRIMARY KEY ( Emp_id),
 CONSTRAINT FK_56 FOREIGN KEY ( Lib_id)
REFERENCES "Library" ( Lib_id)
);


CREATE INDEX fkIdx_58 ON Employee
(
 Lib_id
);
```

7)--------------Book--

CREATE TABLE Book

(

 B_name   varchar(50) NOT NULL,

 Genre   varchar(50) NOT NULL,

 Edition int NOT NULL,

 Type   varchar(50) NOT NULL,

 ISBN   decimal(13,0) NOT NULL,

 Lib_id   varchar(20) NOT NULL,

CONSTRAINT PK_185 PRIMARY KEY (ISBN),

 CONSTRAINT FK_59 FOREIGN KEY (Lib_id)
REFERENCES "Library" (Lib_id)

);

CREATE INDEX fkIdx_61 ON Book

(

 Lib_id

);

8)---------------Publisher---------------------------------------

CREATE TABLE Publisher

(

 Pname   varchar(20) NOT NULL,

 YOP   date NOT NULL,

 Pub_id   varchar(20) NOT NULL,

 ISBN   decimal(13,0) NOT NULL,

 CONSTRAINT PK_193 PRIMARY KEY (Pub_id),

 CONSTRAINT FK_15 FOREIGN KEY (ISBN) REFERENCES Book (ISBN)

);

CREATE INDEX fkIdx_17 ON Publisher

(

 ISBN

);

9)--------------Author----------------------------------

CREATE TABLE Author

(

 Author_name varchar(50) NOT NULL,

 Gender   varchar(6) NOT NULL,

 Author_id   varchar(5) NOT NULL,

 ISBN   decimal(13,0) NOT NULL,

 CONSTRAINT PK_195 PRIMARY KEY (Author_id),

 CONSTRAINT FK_23 FOREIGN KEY (ISBN) REFERENCES Book (ISBN)

);

CREATE INDEX fkIdx_25 ON Author

(

 ISBN

);

10)--------------Payment----------------------------------

CREATE TABLE Payment

(

 UPI   varchar(20) NULL,

 Net_Banking varchar(20) NULL,

 Card   varchar(20) NULL,

 Payment_id varchar(20) NOT NULL,

 CONSTRAINT PK_230 PRIMARY KEY (Payment_id)

);

11)--------------Membership--------------------------

CREATE TABLE Membership

(

 Amount   numeric(4,0) NOT NULL,

 Pay_Type   varchar(20) NOT NULL,

 Payment_id varchar(20) NOT NULL,

 CONSTRAINT PK_222 PRIMARY KEY (Pay_Type,
Payment_id),

 CONSTRAINT FK_237 FOREIGN KEY (Payment_id)
REFERENCES Payment (Payment_id)

);

CREATE INDEX fkIdx_239 ON Membership

(

 Payment_id

);

12)---------------User-----------------------------------

CREATE TABLE "User"

(

 First_name   varchar(50) NOT NULL,

 Last_name   varchar(50) NOT NULL,

 Phone_Number   numeric(10,0) NOT NULL,

 Address   varchar(200) NOT NULL,

 Passwrd   varchar(20) NOT NULL,

 DOB   date NOT NULL,

 "User_id/email_id" varchar(50) NOT NULL,

 Lib_id   varchar(20) NOT NULL,

 State_id   varchar(5) NOT NULL,

 Verif_id   varchar(50) NOT NULL,

 Payment_id   varchar(20) NOT NULL,

 CONSTRAINT PK_189 PRIMARY KEY (
"User_id/email_id"),

 CONSTRAINT FK_131 FOREIGN KEY (Lib_id)
REFERENCES "Library" (Lib_id),

 CONSTRAINT FK_168 FOREIGN KEY (State_id)
REFERENCES "State" (State_id),

```
  CONSTRAINT FK_218 FOREIGN KEY ( Verif_id )
REFERENCES Verification ( Verif_id ),

  CONSTRAINT FK_240 FOREIGN KEY ( Payment_id )
REFERENCES Payment ( Payment_id )

);


CREATE INDEX fkIdx_133 ON "User"

(

 Lib_id

);


CREATE INDEX fkIdx_170 ON "User"

(

 State_id

);


CREATE INDEX fkIdx_220 ON "User"

(

 Verif_id

);
```

```
CREATE INDEX fkIdx_242 ON "User"
(
 Payment_id
);
```

13)--------------Return/Issue----------------------------

```sql
CREATE TABLE "Return/Issue"
(
 Hold_date       date NOT NULL,
 User_Ret_date    date NOT NULL,
 "Issue/Renew_date" date NOT NULL,
 A_Ret_date      date NOT NULL,
 "User_id/email_id" varchar(50) NOT NULL,
 ISBN            decimal(13,0) NOT NULL,
 CONSTRAINT FK_102 FOREIGN KEY (
"User_id/email_id") REFERENCES "User" (
"User_id/email_id"),
 CONSTRAINT FK_106 FOREIGN KEY ( ISBN)
REFERENCES Book ( ISBN)
);


CREATE INDEX fkIdx_104 ON "Return/Issue"
(
 "User_id/email_id"
);
```

```
CREATE INDEX fkIdx_110 ON "Return/Issue"
(
 ISBN
);
```

14)--------------Feedback--------------------------------------

CREATE TABLE Feedback

(

 U_name   varchar(50) NULL,

 Review   varchar(500) NOT NULL,

 Rating   numeric(1,1) NOT NULL,

 "User_id/email_id" varchar(50) NOT NULL,

 CONSTRAINT FK_75 FOREIGN KEY ("User_id/email_id") REFERENCES "User" ("User_id/email_id")

);

CREATE INDEX fkIdx_77 ON Feedback

(

 "User_id/email_id"

);

15)---------------Merits/Demerits---------------------------

CREATE TABLE "Merits/demerits"

(

 Rating   numeric(1,1) NOT NULL,

 "Admin_User_id/email_id" varchar(50) NOT NULL,

 "User_id/email_id"   varchar(50) NOT NULL,

 CONSTRAINT FK_144 FOREIGN KEY (
"Admin_User_id/email_id") REFERENCES Admin (
"User_id/email_id"),

 CONSTRAINT FK_153 FOREIGN KEY (
"User_id/email_id") REFERENCES "User" (
"User_id/email_id")

);

CREATE INDEX fkIdx_147 ON "Merits/demerits"

(

 "Admin_User_id/email_id"

);

```
CREATE INDEX fkIdx_156 ON "Merits/demerits"
(
 "User_id/email_id"
);
```

city (public)
- city_name character varying(50)
- city_id character varying(50)
- state_id character varying(5)

State (public)
- state_id character varying(5)
- statename character varying(20)

Library (public)
- address character varying(500)
- funds numeric(8,2)
- lib_name character varying(50)
- lib_id character varying(20)
- state_id character varying(5)

employee (public)
- desig character varying(20)
- first_name character varying(20)
- last_name character varying(20)
- salary numeric(5,2)
- emp_id character varying(10)
- lib_id character varying(20)

payment (public)
- upi character varying(20)
- net_banking character varying(20)
- card character varying(20)
- payment_id character varying(20)

User (public)
- first_name character varying(50)
- last_name character varying(50)
- phone_number numeric(10,0)
- address character varying(200)
- passwrd character varying(20)
- dob date
- User_id/email_id character varying(50)
- lib_id character varying(20)
- state_id character varying(5)
- verif_id character varying(50)
- payment_id character varying(20)

verification (public)
- verif_id character varying(50)
- Aadhar Card character varying(20)
- license character varying(50)

membership (public)
- amount numeric(4,0)
- pay_type character varying(20)
- payment_id character varying(20)

admin (public)
- User_id/email_id character varying(50)
- lib_id character varying(20)
- state_id character varying(5)
- verif_id character varying(50)
- first_name character varying(50)
- last_name character varying(50)
- Phone_Number numeric(10,0)
- passwrd character varying(20)
- desig character varying(20)
- dob date

Merits/demerits
- rating numeric(1,1)
- Admin_User_id/email_id character varying(50)
- User_id/email_id character varying(50)

Return/Issue (public)
- hold_date date
- user_ret_date date
- Issue/Renew_date date
- a_ret_date date
- User_id/email_id character varying(50)
- isbn numeric(13,0)

feedback (public)
- u_name character varying(50)
- review character varying(50)
- rating numeric(1,1)
- User_id/email_id character varying(50)

author (public)
- author_name character varying(50)
- gender character varying(6)
- author_id character varying(5)
- isbn numeric(13,0)

publisher (public)
- pname character varying(20)
- yop date
- pub_id character varying(20)
- isbn numeric(13,0)

book (public)
- b_name character varying(50)
- genre character varying(50)
- edition integer
- type character varying(50)
- isbn numeric(13,0)
- lib_id character varying(20)