

LIBRARY_MANAGEMENT_SYSTEM

```
CREATE DATABASE library_management_system;
```

```
--
```

```
USE library_management_system;
```

```
--
```

```
-- CREATE TABLE readers
```

```
CREATE TABLE readers  
(  
  reader_id VARCHAR(6),  
  fname VARCHAR(20),  
  mname VARCHAR(20),  
  lname VARCHAR(20),  
  city VARCHAR(15),  
  mobileno VARCHAR(10),  
  occupation VARCHAR(10),  
  dob DATE,  
  CONSTRAINT reders_pk PRIMARY KEY(reader_id)  
);
```

```
DROP table reders;
```

```
-- INSERT ALL DATA IN ONE TIME--
```

```
INSERT INTO readers  
(reader_id,fname,mname,lname,city,mobileno,occupation,dob)  
VALUES  
( 'C00001','Ramesh','Chandra','Sharma','Delhi','954319834','Service','1976-12-06'),  
( 'C00002','Avinash','Sunder','Minha','Delhi','9638754976','Service','1974-10-16'),  
( 'C00003','Rahul',null,'Rastogi','Delhi','9856354678','Student','1976-12-16'),  
( 'C00004','Parul',null,'Gandhi','Delhi','9632586487','Housewife','1972-6-16'),  
( 'C00005','Naveen','Chandra','Chitresh','Mumbai','9265487695','Service','1986-10-16'),  
( 'C00006','Chitresh',null,'Amit','Kolkata','9745863456','Student','1993-11-16'),  
( 'C00007','Amit','Kumar','Nisha','chennai','9635497862','Student','1990-09-16'),  
( 'C00008','Nisha',null,'Abhishek','Mumbai','9796859467','Service','2000-08-16'),
```

```
('C00009','Abhishek',null,'Borkar','Pune','9687597625','Service','1998-07-16'),  
( 'C00010','Shankar',null,'Dutt','Delhi','8695768489','Service','1974-06-16'),  
( 'C00011','Nikita','Namdev','Kore','Pune','9307674976','student','2001-12-31');
```

--- OR ---

-- INSERT DATA ONE BY ONE --

```
INSERT INTO readers  
VALUES('C00001','Ramesh','Chandra','Sharma','Delhi','954319834','Service','1976-12-06');  
INSERT INTO readers  
VALUES('C00002','Avinash','Sunder','Minha','Delhi','9638754976','Service','1974-10-16');  
INSERT INTO readers  
VALUES('C00003','Rahul',null,'Rastogi','Delhi','9856354678','Student','1976-12-16');  
INSERT INTO readers  
VALUES('C00004','Parul',null,'Gandhi','Delhi','9632586487','Housewife','1972-6-16');  
INSERT INTO readers  
VALUES('C00005','Naveen','Chandra','Chitresh','Mumbai','9265487695','Service','1986-10-16');  
INSERT INTO readers  
VALUES('C00006','Chitresh',null,'Amit','Kolkata','9745863456','Student','1993-11-16');  
INSERT INTO readers  
VALUES('C00007','Amit','Kumar','Nisha','chennai','9635497862','Student','1990-09-16');  
INSERT INTO readers  
VALUES('C00008','Nisha',null,'Abhishek','Mumbai','9796859467','Service','2000-08-16');  
INSERT INTO readers  
VALUES('C00009','Abhishek',null,'Borkar','Pune','9687597625','Service','1998-07-16');  
INSERT INTO readers  
VALUES('C00010','Shankar',null,'Dutt','Delhi','8695768489','Service','1974-06-16');  
INSERT INTO readers  
VALUES('C00011','Nikita','Namdev','Kore','Pune','9307674976','student','2001-12-31');
```

```
SELECT * FROM readers;
```

```
TRUNCATE TABLE readers;
```

-- _____ **CREATE TABLE Book** _____

```
CREATE TABLE Book
(
bid VARCHAR(6),
bname VARCHAR(40),
bdomain VARCHAR(30),
CONSTRAINT book_bid_pk PRIMARY KEY(bid));
```

```
INSERT INTO Book
(bid,bname,bdomain)
VALUES
('B00001','The Cat in the Hat','Story'),
('B00002','Charlie and the Chocolate Factory','Story'),
('B00003','The Very Hungry Caterpillar','Story');
```

```
SELECT * FROM Book;
DROP TABLE Book;
```

```
-- _____ CREATE TABLE active_readers _____
```

```
CREATE TABLE active_readers
(
account_id VARCHAR(6),
reader_id VARCHAR(6),
bid VARCHAR(6),
atype VARCHAR(10),
astatus VARCHAR(10),
CONSTRAINT activereaders_acnumber_pk PRIMARY KEY(account_id),
CONSTRAINT account_readerid_fk FOREIGN KEY(reader_id) REFERENCES
readers(reader_id),
CONSTRAINT account_bid_fk FOREIGN KEY(bid) REFERENCES book(bid));
```

```
DROP TABLE active_readers;
```

```
-- DATA ---
```

```
INSERT INTO active_readers
(account_id,reader_id,bid,atype,astatus)
VALUES
('A00001','C00001','B00001','Premium','Active'),
('A00002','C00002','B00002','Regular','Active'),
('A00003','C00003','B00002','Premium','Active'),
('A00004','C00002','B00003','Regular','Active'),
('A00005','C00006','B00002','Premium','Active'),
('A00006','C00007','B00001','Premium','Suspended'),
('A00007','C00007','B00001','Regular','Active'),
('A00008','C00001','B00003','Premium','Terminated'),
('A00009','C00003','B00002','Premium','Terminated'),
('A00010','C00004','B00002','Regular','Active'),
('A00011','C00008','B00001','Premium','Active');
```

```
SELECT * FROM active_readers;
```

-- _____ **CREATE TABLE bookissue_details** _____

```
CREATE TABLE bookissue_details
(
issuenumner VARCHAR(6),
account_id VARCHAR(6),
bid VARCHAR(20),
bookname VARCHAR(50),
number_of_book_issued INT(7),
CONSTRAINT trandetails_tnumber_pk PRIMARY KEY(issuenumner),
CONSTRAINT trandetails_acnumber_fk FOREIGN KEY(account_id)REFERENCES
active_readers (account_id));
```

```
INSERT INTO bookissue_details
(issuenumner,account_id,bid,bookname,number_of_book_issued)
VALUES
('T00001','A00001','B00001','The Cat in the Hat',20),
('T00002','A00001','B00002','Charlie and the Chocolate Factory',50),
('T00003','A00002','B00001','The Cat in the Hat',200),
('T00004','A00002','B00003','The Very Hungry Caterpillar',300);
```

```
SELECT * FROM bookissue_details;
DROP TABLE bookissue_details;
```

ERR DIAGRAM



