

SETTING UP RELATIONS

USERS RELATION:

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > CREATE TABLE USERS(
->  UID INTEGER PRIMARY KEY AUTO_INCREMENT,
->  FNAME VARCHAR(20),
->  LNAME VARCHAR(20),
->  EMAIL VARCHAR(50) UNIQUE,
->  PHONENO BIGINT(10),
->  ADDR VARCHAR(70),
->  PW VARCHAR(15));
Query OK, 0 rows affected, 1 warning (0.0982 sec)
Warning (code 1681): Integer display width is deprecated and will be removed in a future release.
MySQL localhost:33060+ ssl lib SQL > .
```

BOOK RELATION :

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > CREATE TABLE BOOK(
->  BID INTEGER PRIMARY KEY AUTO_INCREMENT,
->  BNAME VARCHAR(50),
->  AUTHOR VARCHAR(40),
->  PRICE INTEGER,
->  BSTATUS CHAR,
->  BORROWEDBY INTEGER,
->  FOREIGN KEY (BORROWEDBY) REFERENCES USERS(UID));
Query OK, 0 rows affected (0.0781 sec)
MySQL localhost:33060+ ssl lib SQL >
MySQL localhost:33060+ ssl lib SQL > ALTER TABLE BOOK ADD CONSTRAINT CHECK_BSTAT CHECK (BSTATUS IN ('A', 'B'));
Query OK, 0 rows affected (0.1194 sec)
Records: 0 Duplicates: 0 Warnings: 0
MySQL localhost:33060+ ssl lib SQL > .
```

DELPPL RELATION:

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > CREATE TABLE DELPPL(
->  EID INTEGER PRIMARY KEY AUTO_INCREMENT,
->  FNAME VARCHAR(15),
->  LNAME VARCHAR(15),
->  PHONENO BIGINT(10),
->  ORDERCOUNT INTEGER);
Query OK, 0 rows affected, 1 warning (0.0603 sec)
Warning (code 1681): Integer display width is deprecated and will be removed in a future release.
MySQL localhost:33060+ ssl lib SQL > .
```

ORDERS RELATION:

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > CREATE TABLE ORDERS(
->  OID INTEGER PRIMARY KEY AUTO_INCREMENT,
->  UID INTEGER,
->  EID INTEGER,
->  ODATE DATE,
->  DDATE DATE,
->  RDATE DATE,
->  AMOUNT INTEGER,
->  FINE INTEGER,
->  TOTAL INTEGER,
->  OSTATUS CHAR,
->  FOREIGN KEY (UID) REFERENCES USERS(UID),
->  FOREIGN KEY (EID) REFERENCES DELPPL(EID));
Query OK, 0 rows affected (0.0958 sec)
MySQL localhost:33060+ ssl lib SQL >
MySQL localhost:33060+ ssl lib SQL > ALTER TABLE ORDERS ADD CONSTRAINT CHECK_OSTAT CHECK (OSTATUS IN ('O', 'D', 'R'));
Query OK, 0 rows affected (0.1528 sec)
Records: 0 Duplicates: 0 Warnings: 0
MySQL localhost:33060+ ssl lib SQL > .
```

ODETAILS RELATION :

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > CREATE TABLE ODETAILS(
-> OID INTEGER,
-> BID INTEGER,
-> PRICE INTEGER,
-> FOREIGN KEY (OID) REFERENCES ORDERS(OID),
-> FOREIGN KEY (BID) REFERENCES BOOK(BID));
Query OK, 0 rows affected (0.1937 sec)
MySQL localhost:33060+ ssl lib SQL >
```

LIST OF TABLES IN DB:

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > SHOW TABLES;
+-----+
| Tables_in_lib |
+-----+
| book          |
| delpp1        |
| odetails      |
| orders        |
| users         |
+-----+
5 rows in set (0.0098 sec)
```

DESCRIPTION OF ALL THE TABLES:

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > DESCRIBE USERS;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| UID   | int       | NO   | PRI | NULL    | auto_increment |
| FNAME | varchar(20) | YES  |     | NULL    |               |
| LNAME | varchar(20) | YES  |     | NULL    |               |
| EMAIL | varchar(50) | YES  | UNI | NULL    |               |
| PHONENO | bigint    | YES  |     | NULL    |               |
| ADDR  | varchar(70) | YES  |     | NULL    |               |
| PW    | varchar(15) | YES  |     | NULL    |               |
+-----+
7 rows in set (0.0029 sec)

MySQL localhost:33060+ ssl lib SQL > DESCRIBE BOOK;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| BID   | int       | NO   | PRI | NULL    | auto_increment |
| BNAME | varchar(50) | YES  |     | NULL    |               |
| AUTHOR | varchar(40) | YES  |     | NULL    |               |
| PRICE | int       | YES  |     | NULL    |               |
| BSTATUS | char(1)   | YES  |     | NULL    |               |
| BORROWEDBY | int     | YES  | MUL | NULL    |               |
+-----+
6 rows in set (0.0088 sec)

MySQL localhost:33060+ ssl lib SQL > DESCRIBE DELPPL;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| EID   | int       | NO   | PRI | NULL    | auto_increment |
| FNAME | varchar(15) | YES  |     | NULL    |               |
| LNAME | varchar(15) | YES  |     | NULL    |               |
| PHONENO | bigint    | YES  |     | NULL    |               |
| ORDERCOUNT | int     | YES  |     | NULL    |               |
+-----+
5 rows in set (0.0022 sec)

MySQL localhost:33060+ ssl lib SQL >
```

```
MySQL Shell
MySQL localhost:33060+ ssl lib SQL > DESCRIBE ORDERS;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| OID   | int       | NO   | PRI | NULL    | auto_increment |
| UID   | int       | YES  | MUL | NULL    |               |
| EID   | int       | YES  | MUL | NULL    |               |
| ODATE | date      | YES  |     | NULL    |               |
| DDATE | date      | YES  |     | NULL    |               |
| RDATE | date      | YES  |     | NULL    |               |
| AMOUNT | int       | YES  |     | NULL    |               |
| FTNE  | int       | YES  |     | NULL    |               |
| TOTAL | int       | YES  |     | NULL    |               |
| OSTATUS | char(1)  | YES  |     | NULL    |               |
+-----+
10 rows in set (0.0030 sec)

MySQL localhost:33060+ ssl lib SQL > DESCRIBE ODETAILS;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| OID   | int       | YES  | MUL | NULL    |               |
| BID   | int       | YES  | MUL | NULL    |               |
| PRICE | int       | YES  |     | NULL    |               |
+-----+
3 rows in set (0.0030 sec)

MySQL localhost:33060+ ssl lib SQL >
```