**1. Database Creation :** CREATE SCHEMA `eassentmanagement\_db` ;

**2.** **Tables Creation :**

**A. Borrower Table :**

CREATE TABLE `eassetmanagement\_db`.`borrower\_tbl` (

`id` INT NOT NULL AUTO\_INCREMENT,

`borrowerName` VARCHAR(45) NOT NULL,

`phoneNo` BIGINT NOT NULL,

`email` VARCHAR(45) NOT NULL,

`password` VARCHAR(45) NOT NULL,

`userType` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`));

**B. AssetType Table :**

CREATE TABLE `cms\_db`.`assettype\_tbl` (

`assetName` VARCHAR(25) NOT NULL,

`fineAmout` DOUBLE NOT NULL,

`maxPeriod` VARCHAR(45) NOT NULL,

PRIMARY KEY (`assetName`));

**C. Asset Table :**

CREATE TABLE `eassetmanagement\_db`.`asset\_tbl` (

`id` INT NOT NULL AUTO\_INCREMENT,

`assetName` VARCHAR(45) NOT NULL,

`isAvailable` TINYINT NOT NULL,

`description` VARCHAR(100) NOT NULL,

`dueDate` DATE NOT NULL,

`assetType` VARCHAR(45)NULL,

`currentBorrower` INT NULL,

PRIMARY KEY (`id`),

INDEX `assetType\_idx` (`assetType` ASC) VISIBLE,

INDEX `currentBorrower\_idx` (`currentBorrower` ASC) VISIBLE,

CONSTRAINT `assetType`

FOREIGN KEY (`assetType`)

REFERENCES `eassetmanagement\_db`.`assettype\_tbl` (`assetName`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `currentBorrower`

FOREIGN KEY (`currentBorrower`)

REFERENCES `eassetmanagement\_db`.`borrower\_tbl` (`id`)

ON DELETE CASCADE

ON UPDATE CASCADE);

**D. Transaction Table :**

CREATE TABLE `eassetmanagement\_db`.`transaction\_tbl` (

`id` INT NOT NULL AUTO\_INCREMENT,

`asset` INT NULL,

`borrower` INT NULL,

`borrowedDate` DATE NULL,

`assetReturnDate` DATE NULL,

`fineAmount` DOUBLE NULL,

PRIMARY KEY (`id`),

INDEX `asset\_idx` (`asset` ASC) VISIBLE,

INDEX `borrower\_idx` (`borrower` ASC) VISIBLE,

CONSTRAINT `asset`

FOREIGN KEY (`asset`)

REFERENCES `eassetmanagement\_db`.`asset\_tbl` (`id`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `borrower`

FOREIGN KEY (`borrower`)

REFERENCES `eassetmanagement\_db`.`borrower\_tbl` (`id`)

ON DELETE CASCADE

ON UPDATE CASCADE);