**Assignment**: (MySQL) - Assignment ID: 08\_MySQL\_Assignment1

Consider the below entities

**Subject**

subjectId long

subtitle String

durationInHours int

references Set<Book>

**Book**

bookId long

title String

price double

volume integer

publishDate LocalDate

Write the database and table creation script for the subject and book entity and also include insert, update and delete statements.

**1. Book Table**

**i. Create Book Table**

CREATE TABLE `book` (

`bookId` bigint(20) NOT NULL,

`title` varchar(200) DEFAULT NULL,

`price` double DEFAULT NULL,

`volume` int(11) DEFAULT NULL,

`publishDate` date DEFAULT NULL,

PRIMARY KEY (`bookId`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

**ii. Insert into Book Table**

INSERT INTO `cogdb`.`book` (`bookId`, `title`, `price`, `volume`, `publishDate`) VALUES (1, 'Java', 100, 1.0, '2018-06-25');

**iii. Select from Book Table**

SELECT book.bookId,

book.title,

book.price,

book.volume,

book.publishDate

FROM cogdb.book;

SELECT \* FROM cogdb.book;

**iv. Update Book Table**

UPDATE cogdb.book

SET

title = 'CSE'

WHERE bookId = 1;

**v. Delete from Book Table**

DELETE FROM cogdb.book

WHERE bookId = 1;

**2. Subject Table**

**i. Create Subject Table**

CREATE TABLE `subject` (

`subjectId` bigint(20) NOT NULL,

`subtitle` varchar(200) DEFAULT NULL,

`durationInHours` int(11) DEFAULT NULL,

`bookId` bigint(20) DEFAULT NULL,

PRIMARY KEY (`subjectId`),

KEY `bookId` (`bookId`),

CONSTRAINT `subject\_ibfk\_1` FOREIGN KEY (`bookId`) REFERENCES `book` (`bookId`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

**ii. Insert Into Subject Table**

INSERT INTO `cogdb`.`subject` (`subjectId`, `subtitle`, `durationInHours`, `bookId`) VALUES ('1', 'CSE', '16', '1');

**iii. Select from Subject Table**

SELECT `subject`.`subjectId`,

`subject`.`subtitle`,

`subject`.`durationInHours`,

`subject`.`bookId`

FROM `cogdb`.`subject`;

**iv. Update Subject Table**

UPDATE cogdb.subject

SET

subtitle = 'Computer Science'

WHERE subjectId = 1;

**v. Delet from Subject Table**

DELETE FROM `cogdb`.`subject`

WHERE subjectId = 1;