P1-As part of this assignment, we need to list down all the entities, their attributes and the table structures for the scenario mentioned in the previous slide. You also need to write the SQL queries required to create these tables along with few sample entries. Ensure the tables follow 1NF, 2NF, 3NF and BCNF rules.

-- Schema book-my-show

-- -----------------------------------------------------

CREATE SCHEMA IF NOT EXISTS `book-my-show` DEFAULT CHARACTER SET utf8 ;

-- -----------------------------------------------------

-- Table `book-my-show`.`city`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`city` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`thearter`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`thearter` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`screen`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`screen` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

`thearter\_id` INT NOT NULL,

PRIMARY KEY (`id`, `thearter\_id`),

INDEX `fk\_screen\_thearter\_idx` (`thearter\_id` ASC) VISIBLE,

CONSTRAINT `fk\_screen\_thearter`

FOREIGN KEY (`thearter\_id`)

REFERENCES `book-my-show`.`thearter` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`show`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`show` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

`thearter\_id` INT NOT NULL,

PRIMARY KEY (`id`, `thearter\_id`),

INDEX `fk\_show\_thearter1\_idx` (`thearter\_id` ASC) VISIBLE,

CONSTRAINT `fk\_show\_thearter1`

FOREIGN KEY (`thearter\_id`)

REFERENCES `book-my-show`.`thearter` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`user`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`user` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`email` VARCHAR(45) NULL,

`phone` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`ticket`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`ticket` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updatede\_at` DATETIME NULL,

`user\_id` INT NOT NULL,

PRIMARY KEY (`id`, `user\_id`),

INDEX `fk\_ticket\_user1\_idx` (`user\_id` ASC) VISIBLE,

CONSTRAINT `fk\_ticket\_user1`

FOREIGN KEY (`user\_id`)

REFERENCES `book-my-show`.`user` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`movie`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`movie` (

`id` INT NOT NULL AUTO\_INCREMENT,

`title` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

`show\_id` INT NOT NULL,

`show\_thearter\_id` INT NOT NULL,

PRIMARY KEY (`id`, `show\_id`, `show\_thearter\_id`),

INDEX `fk\_movie\_show1\_idx` (`show\_id` ASC, `show\_thearter\_id` ASC) VISIBLE,

CONSTRAINT `fk\_movie\_show1`

FOREIGN KEY (`show\_id` , `show\_thearter\_id`)

REFERENCES `book-my-show`.`show` (`id` , `thearter\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `book-my-show`.`null`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `book-my-show`.`null` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`created\_at` DATETIME NULL,

`updated\_at` DATETIME NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;