**Database Documentation**

**Users: (ManyToMany relation with Rooms)**

|  |  |
| --- | --- |
| User\_Id | INT NOT NULL AUTO\_INCREMENT (Primary Key) |
| Name | Varchar(50) not null |
| Password | Varchar(50) not null |
| In\_Room | Char(1) not null default ‘N’ (This can be ‘N’ or ‘Y’) |

**Room\_Members: (Connecting table for Users and Rooms)**

|  |  |
| --- | --- |
| User\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) |
| Room\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) |

**Rooms: (ManyToMany relation with Users)**

|  |  |
| --- | --- |
| Room\_Id | INT NOT NULL AUTO\_INCREMENT (Primary Key) |

**Bulletin: (OneToOne relation with Rooms)**

|  |  |
| --- | --- |
| Bulletin\_Contents | Varchar(50) not null |
| Bulletin\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) (Unique) |

**Schedule: (OneToOne relation with Rooms)**

|  |  |
| --- | --- |
| Schedule\_Contents | Varchar(50) not null |
| Schedule\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) (Unique) |

**Lists: (OneToOne relation with Rooms)**

|  |  |
| --- | --- |
| Lists\_Contents | Varchar(50) not null |
| Lists\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) (Unique) |

**Task: (OneToMany relation with Lists)**

|  |  |
| --- | --- |
| Task\_Id | INT NOT NULL AUTO\_INCREMENT (Primary Key) |
| Task\_Contents | Varchar(50) not null |
| List\_Task\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) |

**SubTask: (OneToMany relation with Task)**

|  |  |
| --- | --- |
| SubTask\_Id | INT NOT NULL AUTO\_INCREMENT (Primary Key) |
| SubTask\_Contents | Varchar(50) not null |
| List\_Task\_SubTask\_Id | INT NOT NULL AUTO\_INCREMENT (Foreign Key) |

**Code to regenerate database if things go south. Note this code will only work inside of MYSQL Workbench.**

DROP SCHEMA IF EXISTS `Room8` ;

CREATE SCHEMA IF NOT EXISTS `Room8` ;

USE `Room8` ;

CREATE TABLE IF NOT EXISTS `Room8`.`Users` (

`User\_Id` INT NOT NULL AUTO\_INCREMENT,

`Name` VARCHAR(50) NOT NULL,

`Password` VARCHAR(50) NOT NULL,

`In\_Room` CHAR(1) NOT NULL DEFAULT 'N',

PRIMARY KEY (`User\_Id`))

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Rooms` (

`Room\_Id` INT NOT NULL AUTO\_INCREMENT,

PRIMARY KEY (`Room\_Id`))

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Room\_Members` (

`User\_Id` INT NOT NULL,

`Room\_Id` INT NOT NULL,

INDEX `User\_Id\_idx` (`User\_Id` ASC) VISIBLE,

INDEX `Room\_Id\_idx` (`Room\_Id` ASC) VISIBLE,

CONSTRAINT `User\_Id`

FOREIGN KEY (`User\_Id`)

REFERENCES `Room8`.`Users` (`User\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `Room\_Id`

FOREIGN KEY (`Room\_Id`)

REFERENCES `Room8`.`Rooms` (`Room\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Bulletin` (

`Bulletin\_contents` VARCHAR(50) NOT NULL,

`Bulletin\_Id` INT NOT NULL,

INDEX `Room\_Id\_idx` (`Bulletin\_Id` ASC) VISIBLE,

CONSTRAINT `Bulletin\_Id`

FOREIGN KEY (`Bulletin\_Id`)

REFERENCES `Room8`.`Rooms` (`Room\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Schedule` (

`Schedule\_Contents` VARCHAR(50) NOT NULL,

`Schedule\_Id` INT NOT NULL,

INDEX `Room\_Id\_idx` (`Schedule\_Id` ASC) VISIBLE,

CONSTRAINT `Schedule\_Id`

FOREIGN KEY (`Schedule\_Id`)

REFERENCES `Room8`.`Rooms` (`Room\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Lists` (

`List\_Contents` VARCHAR(50) NOT NULL,

`List\_Id` INT NOT NULL,

INDEX `Room\_Id\_idx` (`List\_Id` ASC) VISIBLE,

CONSTRAINT `List\_Id`

FOREIGN KEY (`List\_Id`)

REFERENCES `Room8`.`Rooms` (`Room\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`Task` (

`Task\_Id` INT NOT NULL AUTO\_INCREMENT,

`Task\_Contents` VARCHAR(50) NOT NULL,

`List\_Task\_Id` INT NOT NULL,

PRIMARY KEY (`Task\_Id`),

INDEX `List\_Task\_Id\_idx` (`List\_Task\_Id` ASC) VISIBLE,

CONSTRAINT `List\_Task\_Id`

FOREIGN KEY (`List\_Task\_Id`)

REFERENCES `Room8`.`Lists` (`List\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

CREATE TABLE IF NOT EXISTS `Room8`.`SubTask` (

`SubTask\_Id` INT NOT NULL AUTO\_INCREMENT,

`SubTask\_Contents` VARCHAR(50) NOT NULL,

`List\_Task\_SubTask\_ID` INT NOT NULL,

PRIMARY KEY (`SubTask\_Id`),

INDEX `Task\_Id\_idx` (`List\_Task\_SubTask\_ID` ASC) VISIBLE,

CONSTRAINT `List\_Task\_SubTask\_ID`

FOREIGN KEY (`List\_Task\_SubTask\_ID`)

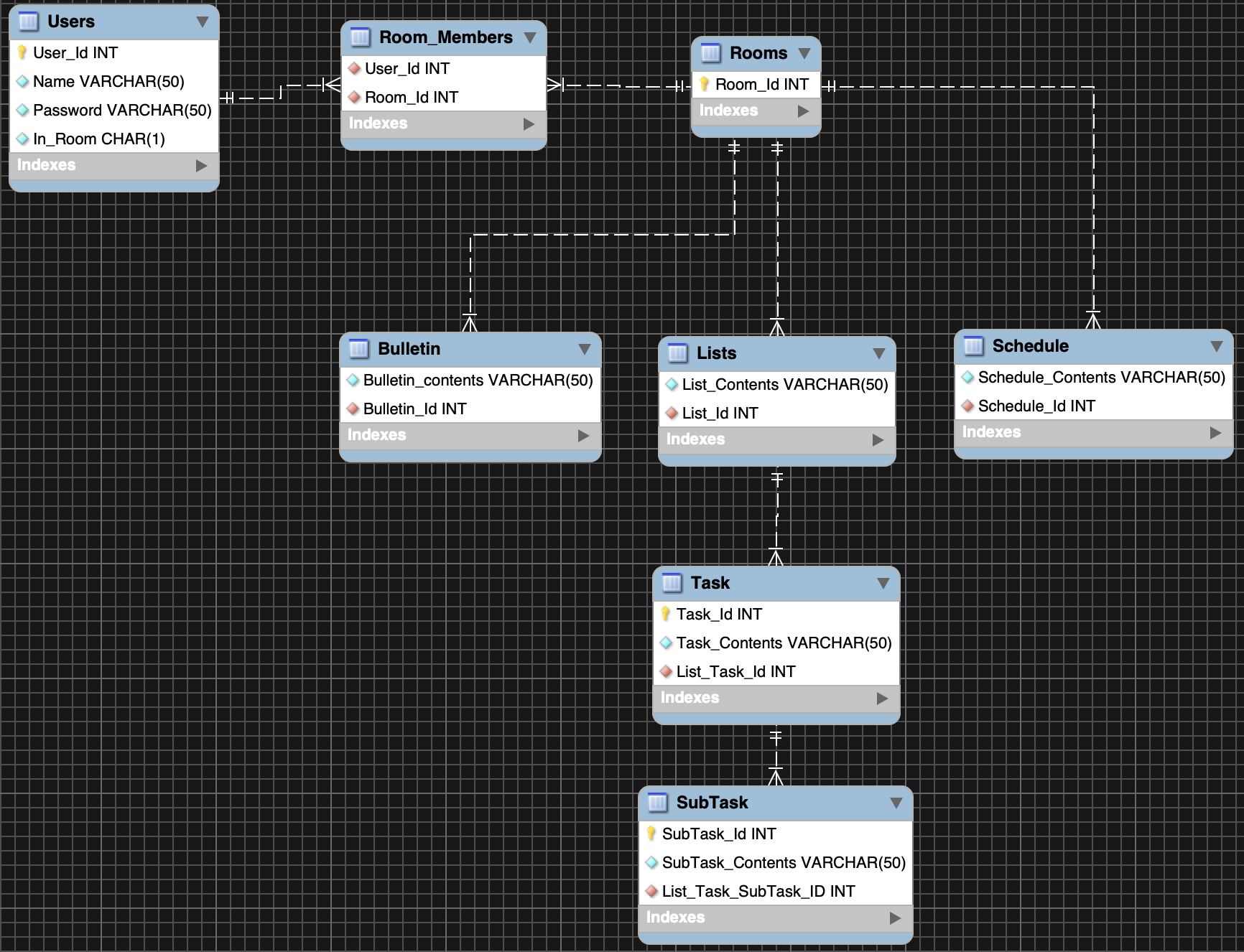
REFERENCES `Room8`.`Task` (`Task\_Id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

**Schematic used to design and create the database**

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