Cisc332: Assignment 1

Group 51

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Assumptions:
We did not have to handle the min/max amount of students in a hotel room because our PHP code will take care of that
There will be a separate PHP check which makes sure that the chair member for a committee is also a member of the committee
When we add new IDs, the first digit in the integer represents whether the attendee is a speaker, student, etc.

- 1 is indicative of a student
- 2 is indicative of a sponsor attendee
- 3 is indicative of a professional
- 4 is indicative of a speaker

We will make sure to add a constraint that each type of attendee gets IDs of this form
We did not include Price in our ER model because we are going to program that in PHP
We are also assuming that there is only one hotel and is solely distinguished by its room number. That is, there cannot be two different rooms in the hotel with the same room number.
We will make sure that the max number of emails a company is allowed to send is checked in our php code.
We are assuming that the number of emails does not get reset at the end of the day
We didn't include just a basic attendees table since you can easily get that by joining all the tables around Session on the SessionID (this increases the modularity of our design).

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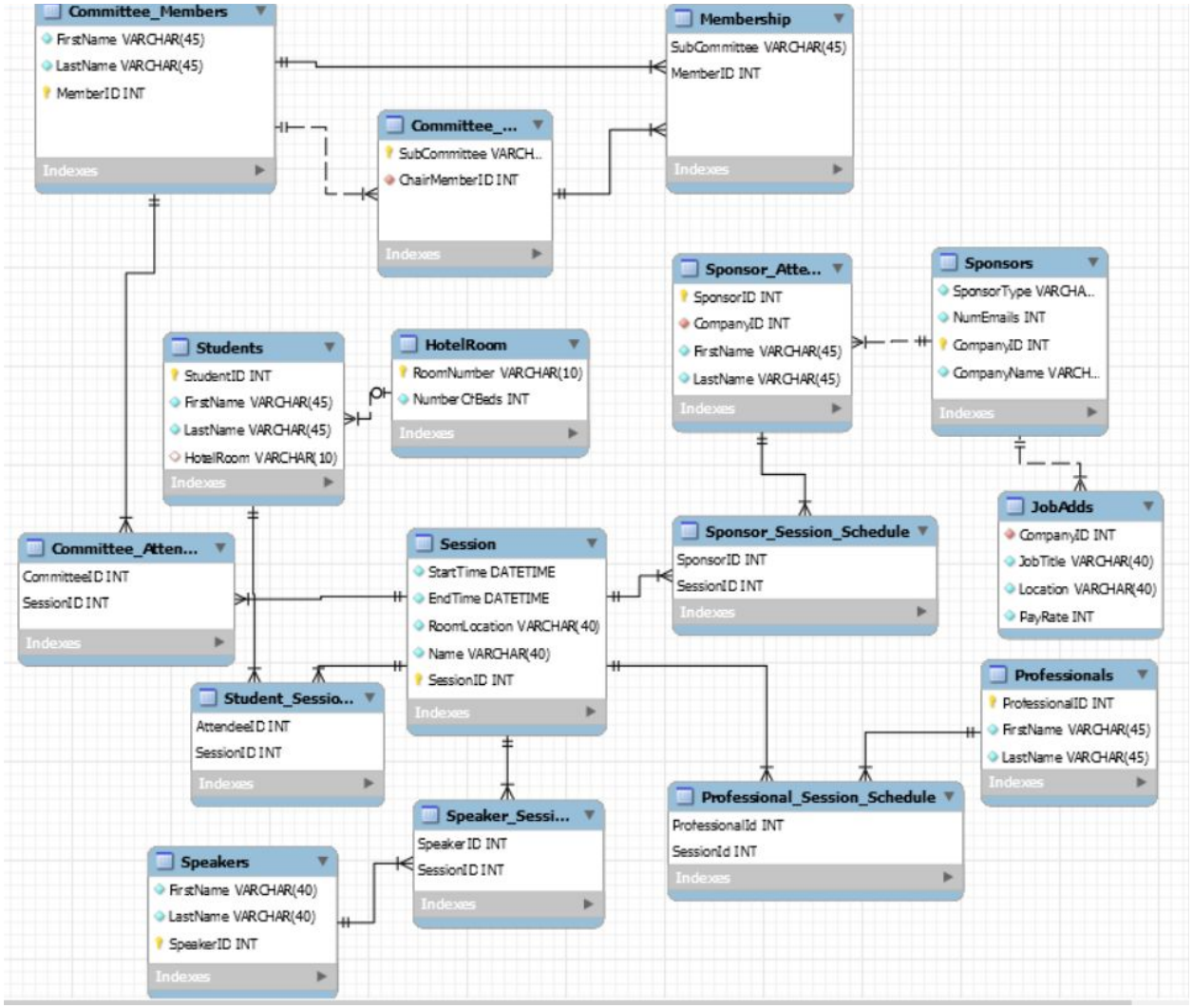
Committee_Members
FirstName VARCHAR(45)
LastName VARCHAR(45)
MemberID INT
Indexes
Membership
SubCommittee VARCHAR(45)
MemberID INT
Indexes
Committee_...
SubCommittee VARCH..
ChairMemberID INT
Indexes
Sponsor_Atte...
SponsorID INT
CompanyID INT
FirstName VARCHAR(45)
LastName VARCHAR(45)
Indexes
Sponsors
SponsorType VARCHA..
NumEmails INT
CompanyID INT
CompanyName VARCH..
Indexes
Students
StudentID INT
FirstName VARCHAR(45)
LastName VARCHAR(45)
HotelRoom VARCHAR(10)
Indexes
HotelRoom
RoomNumber VARCHAR(10)
NumberOfBeds INT
Indexes
JobAdds
CompanyID INT
JobTitle VARCHAR(40)
Location VARCHAR(40)
PayRate INT
Committee_Atten...
CommitteeID INT
SessionID INT
Indexes
Session
StartTime DATETIME
EndTime DATETIME
RoomLocation VARCHAR(40)
Name VARCHAR(40)
SessionID INT
Indexes
Sponsor_Session_Schedule
SponsorID INT
SessionID INT
Indexes
Professionals
ProfessionalID INT
FirstName VARCHAR(45)
LastName VARCHAR(45)
Indexes
Student_Sessio...
AttendeeID INT
SessionID INT
Indexes
Professional_Session_Schedule
ProfessionalId INT
SessionId INT
Indexes
Speaker_Sessi...
SpeakerID INT
SessionID INT
Indexes
Speakers
FirstName VARCHAR(40)
LastName VARCHAR(40)
SpeakerID INT
Indexes

```
-- -----------------------------------------------------
-- Schema Assn_1_Committee_And_Attendees
-- -----------------------------------------------------
CREATE SCHEMA IF NOT EXISTS `Assn_1_Committee_And_Attendees` DEFAULT
CHARACTER SET utf8 ;
USE `Assn_1_Committee_And_Attendees` ;

-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Committee_Members`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Committee_Members`
(
  `FirstName` VARCHAR(45) NOT NULL,
  `LastName` VARCHAR(45) NOT NULL,
  `MemberID` INT NOT NULL,
  PRIMARY KEY (`MemberID`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`HotelRoom`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`HotelRoom` (
  `RoomNumber` VARCHAR(10) NOT NULL,
  `NumberOfBeds` INT NOT NULL,
  PRIMARY KEY (`RoomNumber`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Students`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Students` (
  `StudentID` INT NOT NULL,
  `FirstName` VARCHAR(45) NOT NULL,
  `LastName` VARCHAR(45) NOT NULL,
  `HotelRoom` VARCHAR(10) NULL,
  PRIMARY KEY (`StudentID`),
  INDEX `RoomNumber_idx` (`HotelRoom` ASC)  ,
  CONSTRAINT `RoomNumber`
    FOREIGN KEY (`HotelRoom`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`HotelRoom` (`RoomNumber`)
    ON DELETE SET NULL
```

```
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Session`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Session` (
  `StartTime` DATETIME NOT NULL,
  `EndTime` DATETIME NOT NULL,
  `RoomLocation` VARCHAR(40) NOT NULL,
  `Name` VARCHAR(40) NOT NULL,
  `SessionID` INT NOT NULL,
  PRIMARY KEY (`SessionID`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Student_Session_Schedule`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS
`Assn_1_Committee_And_Attendees`.`Student_Session_Schedule` (
  `AttendeeID` INT NOT NULL,
  `SessionID` INT NOT NULL,
  PRIMARY KEY (`AttendeeID`, `SessionID`),
  INDEX `SessionID_idx` (`SessionID` ASC)  ,
  CONSTRAINT `SessionStudentsID`
    FOREIGN KEY (`SessionID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Session` (`SessionID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION,
  CONSTRAINT `AttendeeID`
    FOREIGN KEY (`AttendeeID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Students` (`StudentID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Speakers`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Speakers` (
```

```
  `FirstName` VARCHAR(40) NOT NULL,
  `LastName` VARCHAR(40) NOT NULL,
  `SpeakerID` INT NOT NULL,
  PRIMARY KEY (`SpeakerID`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Sponsors`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Sponsors` (
  `SponsorType` VARCHAR(20) NOT NULL,
  `NumEmails` INT NOT NULL,
  `CompanyID` INT NOT NULL,
  `CompanyName` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`CompanyID`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Sponsor_Attendee`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Sponsor_Attendee` (
  `SponsorID` INT NOT NULL,
  `CompanyID` INT NOT NULL,
  `FirstName` VARCHAR(45) NOT NULL,
  `LastName` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`SponsorID`),
  INDEX `ComapnyID_idx` (`CompanyID` ASC)  ,
  CONSTRAINT `ComapnyID`
    FOREIGN KEY (`CompanyID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Sponsors` (`CompanyID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`JobAdds`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`JobAdds` (
  `CompanyID` INT NOT NULL,
  `JobTitle` VARCHAR(40) NOT NULL,
```

```
  `Location` VARCHAR(40) NOT NULL,
  `PayRate` INT UNSIGNED NOT NULL,
  CONSTRAINT `ComapanyID`
    FOREIGN KEY (`CompanyID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Sponsors` (`CompanyID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Committee_List`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Committee_List` (
  `SubCommittee` VARCHAR(45) NOT NULL,
  `ChairMemberID` INT NOT NULL,
  PRIMARY KEY (`SubCommittee`),
  UNIQUE INDEX `SubCommittee_UNIQUE` (`SubCommittee` ASC)  ,
  INDEX `ChairMemberID_idx` (`ChairMemberID` ASC)  ,
  CONSTRAINT `ChairMemberID`
    FOREIGN KEY (`ChairMemberID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Committee_Members` (`MemberID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Membership`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Membership` (
  `SubCommittee` VARCHAR(45) NOT NULL,
  `MemberID` INT NOT NULL,
  INDEX `MemberID_idx` (`MemberID` ASC)  ,
  INDEX `SubCommittee_idx` (`SubCommittee` ASC)  ,
  PRIMARY KEY (`SubCommittee`, `MemberID`),
  CONSTRAINT `MemberID`
    FOREIGN KEY (`MemberID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Committee_Members` (`MemberID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION,
  CONSTRAINT `SubCommittee`
    FOREIGN KEY (`SubCommittee`)
```

```
    REFERENCES `Assn_1_Committee_And_Attendees`.`Committee_List` (`SubCommittee`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Sponsor_Session_Schedule`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS
`Assn_1_Committee_And_Attendees`.`Sponsor_Session_Schedule` (
  `SponsorID` INT NOT NULL,
  `SessionID` INT NOT NULL,
  PRIMARY KEY (`SponsorID`, `SessionID`),
  INDEX `SessionDropID_idx` (`SessionID` ASC)  ,
  CONSTRAINT `SponsorID`
    FOREIGN KEY (`SponsorID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Sponsor_Attendee` (`SponsorID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION,
  CONSTRAINT `SessionSponsors!D`
    FOREIGN KEY (`SessionID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Session` (`SessionID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Speaker_Session_Schedule`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS
`Assn_1_Committee_And_Attendees`.`Speaker_Session_Schedule` (
  `SpeakerID` INT NOT NULL,
  `SessionID` INT NOT NULL,
  PRIMARY KEY (`SpeakerID`, `SessionID`),
  CONSTRAINT `SpeakerID`
    FOREIGN KEY (`SpeakerID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Speakers` (`SpeakerID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION,
  CONSTRAINT `SessionSpeakerID`
    FOREIGN KEY (`SessionID`)
```

```
    REFERENCES `Assn_1_Committee_And_Attendees`.`Session` (`SessionID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Professionals`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `Assn_1_Committee_And_Attendees`.`Professionals` (
  `ProfessionalID` INT NOT NULL,
  `FirstName` VARCHAR(45) NOT NULL,
  `LastName` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`ProfessionalID`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Professional_Session_Schedule`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS
`Assn_1_Committee_And_Attendees`.`Professional_Session_Schedule` (
  `ProfessionalId` INT NOT NULL,
  `SessionId` INT NOT NULL,
  PRIMARY KEY (`SessionId`, `ProfessionalId`),
  INDEX `ProfessionalID_idx` (`ProfessionalId` ASC) ,
  CONSTRAINT `ProfessionalSessionID`
    FOREIGN KEY (`SessionId`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Session` (`SessionID`)
    ON DELETE CASCADE
    ON UPDATE NO ACTION,
  CONSTRAINT `ProfessionalID`
    FOREIGN KEY (`ProfessionalId`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Professionals` (`ProfessionalID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `Assn_1_Committee_And_Attendees`.`Committee_Attendees`
-- -----------------------------------------------------
```

```
CREATE TABLE IF NOT EXISTS
`Assn_1_Committee_And_Attendees`.`Committee_Attendees` (
  `CommitteeID` INT NOT NULL,
  `SessionID` INT NOT NULL,
  PRIMARY KEY (`CommitteeID`, `SessionID`),
  INDEX `SessionCommirreeID_idx` (`SessionID` ASC),
  CONSTRAINT `CommitteeMemberID`
    FOREIGN KEY (`CommitteeID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Committee_Members` (`MemberID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `SessionCommirreeID`
    FOREIGN KEY (`SessionID`)
    REFERENCES `Assn_1_Committee_And_Attendees`.`Session` (`SessionID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
# Insert Values Here

#Committee inserts
Insert Into `committee_members` values ("Michael", "Krakovsky", 1);
Insert Into `committee_members` values ("Andrew", "Greb", 2);
Insert Into `committee_members` values ("Matthew", "Nat", 3);
Insert Into `committee_members` values ("John", "Krack", 4);
Insert Into `committee_members` values ("Chris", "Wallace", 5);
Insert Into `committee_members` values ("Two", "Pac", 6);
Insert Into `committee_members` values ("Tom", "Brady", 7);
Insert Into `committee_members` values ("Michael", "Jordan", 8);
Insert Into `committee_members` values ("Michael", "Shue", 9);
Insert Into `committee_members` values ("The nameless", "The nameless", 10);

#Committee List
Insert into `committee_list` values ("AI Committee", 3);
Insert into `committee_list` values ("The Goat Communitte", 7);
Insert into `committee_list` values ("Stellar", 1);
Insert into `committee_list` values ("SuperBowl Committee", 7);

#Membership inserts
Insert into `membership` values ("The Goat Communitte", 2);
Insert into `membership` values ("Stellar", 3);
Insert into `membership` values ("SuperBowl Committee", 1);
Insert into `membership` values ("The Goat Communitte", 1);
Insert into `membership` values ("The Goat Communitte", 10);
Insert into `membership` values ("Stellar", 9);
Insert into `membership` values ("SuperBowl Committee", 5);
Insert into `membership` values ("The Goat Communitte", 5);
Insert into `membership` values ("AI Committee", 3);
Insert into `membership` values ("The Goat Communitte", 7);
Insert into `membership` values ("Stellar", 1);
Insert into `membership` values ("SuperBowl Committee", 7);
Insert into `membership` values ("The Goat Communitte", 6);
Insert into `membership` values ("Stellar", 4);
Insert into `membership` values ("SuperBowl Committee", 4);

# Hotel Room
insert into HotelRoom values ("205A", 2);
insert into HotelRoom values ("212A", 2);

# Students
insert into Students values (123123, "Dude 1", "nooooooo", "205A");
```

```
insert into Students values (124324, "Dude 2", "another", "205A");
insert into Students values (123421, "Person 2", "last", "205A");
insert into Students values (1234243, "Girl 1", "meee", "205A");
insert into Students values (1309342, "Girl 31", "andi", "212A");
insert into Students values (18765, "Damn 31", "andi", "212A");

# Session
insert into `Session` values ('2019-02-08 12:00:00', '2019-02-08 12:30:00', "Big Room", "Learn",
123456);
insert into `Session` values ('2019-02-08 13:00:00', '2019-02-08 13:30:00', "Small Room",
"Learn more", 98456);
insert into `Session` values ('2019-02-09 16:00:00', '2019-02-08 16:30:00', "Big Room",
"Closing", 743456);

# Student_Session_Schedule
insert into Student_Session_Schedule values (123123, 743456);
insert into Student_Session_Schedule values (18765, 743456);

insert into Student_Session_Schedule values (18765, 98456);
insert into Student_Session_Schedule values (123421, 98456);
insert into Student_Session_Schedule values (123421, 123456);
insert into Student_Session_Schedule values (1309342, 123456);

#Sponsors
insert into Sponsors values ("Platinum", 5, 35345, "The company");
insert into Sponsors values ("Gold", 4, 92348, "Dominate");
insert into Sponsors values ("Silver", 3, 1293, "Goat");
insert into Sponsors values ("Bronze", 0, 7534, "Sacrafice");

# Job Adds
insert into JobAdds values (35345, "Manager", "To", 23);
insert into JobAdds values (92348, "Clegery", "Atl", 53);
insert into JobAdds values (92348, "CEO", "LA", 67);
insert into JobAdds values (7534, "CFO", "por", 65);

#Sponsor Attendee
insert into Sponsor_Attendee values (2000, 35345, "Tony", "TheTiger");
insert into Sponsor_Attendee values (2001, 92348, "Rudolph", "TheRedNosedReindeer");
insert into Sponsor_Attendee values (2002, 1293, "Bob", "TheBuilder");
insert into Sponsor_Attendee values (2003, 7534, "Margarita", "Lamborghini");

#Sponsor Session Schedule
insert into Sponsor_Session_Schedule values (2000, 123456);
```

```
insert into Sponsor_Session_Schedule values (2001, 123456);
insert into Sponsor_Session_Schedule values (2002, 98456);
insert into Sponsor_Session_Schedule values (2003, 743456);

#Speakers
insert into Speakers values ("Wendy","Powley", 4000);
insert into Speakers values ("Michael","Krakovspee", 4001);
insert into Speakers values ("Matt","RoccoNicNicastro", 4002);

#SpeakersAttendees
insert into Speaker_Session_Schedule values (4000, 123456);
insert into Speaker_Session_Schedule values (4001, 98456);
insert into Speaker_Session_Schedule values (4002, 743456);

#Professionals
insert into Professionals values (30000, "Terry", "Larry");

#Professional Session Schedule
insert into Professional_Session_Schedule values (30000, 123456);
```