```
Additional SQL Commands
USERS
DB ADMIN
CREATE USER 'db admin'@'localhost' IDENTIFIED BY 'password';
GRANT ALL PRIVILEGES ON * . * TO 'db admin'@'localhost';
FLUSH PRIVILEGES;
Web Developer
CREATE USER 'web dev'@'localhost' IDENTIFIED BY 'password';
GRANT SELECT, INSERT, UPDATE, DELETE, ALTER, CREATE, DROP
ON a5.* TO 'web dev'@'localhost';
FLUSH PRIVILEGES;
End User
CREATE USER 'end user'@'localhost' IDENTIFIED BY 'password';
GRANT SELECT, INSERT, UPDATE, DELETE
ON a5.* TO 'end user'@'localhost';
FLUSH PRIVILEGES;
Stored Procedure
Nurse
DROP PROCEDURE IF EXISTS nurseInsert;
DELIMITER //
Create Procedure nurseInsert
    (IN PersonRole VARCHAR(255), FirstName VARCHAR(255), LastName
VARCHAR (255), Address VARCHAR (255), Birthdate VARCHAR (255),
PhoneNumber VARCHAR(255), EmployeeType VARCHAR(255), CareCenterID
VARCHAR (255), Certificate VARCHAR (255))
Begin
    Insert Into Person ( `PersonRole`, `FirstName`, `LastName`, `Address`,
`Birthday`, `PhoneNumber`)
    Values (PersonRole, FirstName, LastName, Address, Birthdate,
PhoneNumber);
INSERT INTO `Employee` (`EmployeeType`, `CareCenterID`, `PersonID`) VALUES
(EmployeeType, 11000, LAST INSERT ID());
INSERT INTO `Nurse` ( `Certificate`, `EmployeeID`)
VALUES ( Certificate, LAST INSERT ID());
End//
DELIMITER ;
```

```
EXAMPLE CALL:
CALL nurseInsert ("Nurse", "Barb", "Wendys", "555 McDonalds Road", "2009-
07-30", "305-928-6654x79", "b", 11000, "Yes");
Technician
DROP PROCEDURE IF EXISTS technicianInsert;
DELIMITER //
Create Procedure technicianInsert
    (IN PersonRole VARCHAR(255), FirstName VARCHAR(255), LastName
VARCHAR(255), Address VARCHAR(255), Birthdate VARCHAR(255),
PhoneNumber VARCHAR(255), EmployeeType VARCHAR(255), CareCenterID
VARCHAR (255), Skill VARCHAR (255))
Begin
    Insert Into Person ( `PersonRole`, `FirstName`, `LastName`, `Address`,
`Birthday`, `PhoneNumber`)
    Values (PersonRole, FirstName, LastName, Address, Birthdate,
PhoneNumber);
INSERT INTO `Employee` (`EmployeeType`, `CareCenterID`, `PersonID`) VALUES
(EmployeeType, 11000, LAST INSERT ID());
Insert Into Technician ( `EmployeeID`, `Skill`)
    Values (LAST INSERT ID(), `Mathematics`);
End//
DELIMITER ;
Volunteer
DROP PROCEDURE IF EXISTS volunteerInsert;
DELIMITER //
Create Procedure volunteerInsert
    (IN PersonRole VARCHAR(255), FirstName VARCHAR(255), LastName
VARCHAR(255), Address VARCHAR(255), Birthdate VARCHAR(255),
PhoneNumber VARCHAR(255), EmployeeType VARCHAR(255), CareCenterID
VARCHAR(255), Skill VARCHAR(255))
Begin
    Insert Into Person ( `PersonRole`, `FirstName`, `LastName`, `Address`,
`Birthday`, `PhoneNumber`)
    Values (PersonRole, FirstName, LastName, Address, Birthdate,
PhoneNumber);
INSERT INTO `Employee` (`EmployeeType`, `CareCenterID`, `PersonID`) VALUES
(EmployeeType, 11000, LAST_INSERT ID());
Insert Into Volunteer ( `PersonID`, `Skill`)
   Values (LAST INSERT ID(), `Janitor`);
End//
DELIMITER ;
```

Triggers

CREATE TRIGGER `after_person_insert` AFTER INSERT ON `person` FOR EACH ROW BEGIN INSERT INTO person_backup VALUES(NEW.PersonID, NEW.PersonRole, NEW.FirstName, NEW.LastName, NEW.Address, NEW.Birthday, NEW.PhoneNumber); END

All Records added to person will also be added to person_backup as well after the trigger is implemented. Requires the person_backup table to exist already with same fields (done in SQL2B).

Views

A Nurse view to see the nurse's information, and most importantly if they have there certificate or not.

CREATE VIEW nurseView AS
SELECT FirstName, LastName, PersonRole, Certificate, PhoneNumber,
employee.EmployeeID
FROM Person, Nurse, Employee
WHERE nurse.EmployeeID = employee.EmployeeID AND employee.PersonID =
person.PersonID;

A Nurse view to see the head nurse information especially to check if they are certified to work there.

CREATE VIEW nurseInChargeView AS

SELECT FirstName, LastName, PersonRole, Certificate, PhoneNumber, employee.EmployeeID

FROM carecenter, Person, Nurse, Employee

WHERE nurse.EmployeeID = employee.EmployeeID AND employee.PersonID =
person.PersonID AND nurse.NurseID = carecenter.NurseIDInCharge;

A Technician view showing the Technicians name, TechnicianID, PersonID, and their employeeID. This will tell exactly which technician is which.

CREATE VIEW technicianView AS

SELECT FirstName, LastName, TechnicianID, employee.EmployeeID FROM Person, Technician, Employee

WHERE technician.EmployeeID = employee.EmployeeID AND employee.PersonID =
person.PersonID;

?-----

An Employee view selecting the employee's information where the employee's PersonID correlates with personID.

CREATE VIEW employeeView AS

SELECT FirstName, LastName, EmployeeTypes, employee.EmployeeID FROM Person, Employee

WHERE employee.PersonID = person.PersonID;

?-----

```
A Volunteer view selecting the volunteer's info where the volunteer's personID correlates with personID.
```

CREATE VIEW volunteerView AS SELECT FirstName, LastName, PersonRole, Skill, VolunteerID FROM Person, Volunteer WHERE volunteer.PersonID = person.PersonID; ?-----_____ A Patient view selecting the Patients info, as well as showing if the patient is in or out of the care center where the patient's PersonID correlates with person ID. CREATE VIEW patientView AS SELECT FirstName, LastName, isOutpatient, patientID FROM Person, Patient, Outpatient WHERE patient.PersonID = person.PersonID AND patient.Outpatient = outpatient.Outpatient; Replication Master CMDS Create a Master replication user CREATE USER 'rep'@'10.10.1.1' INDENTIFIED BY 'password'; Grant the user privileges GRANT ALL ON *.* TO 'rep'@'10.10.1.1' IDENTIFIED BY 'password'; Flush tables FLUSH TABLES WITH READ LOCK; Unlock tables UNLOCK TABLES; SLAVE CMDS Stop the SLAVE Stop slave; Connect it to the MASTER server Change master to master host='10.10.1.1', master user='rep', master password='password', master log file='mysql-bin.000002', master log pos=483, master connect retry=10;

Start the SLAVE Start slave;

See if everything is properly connected Show slave status\G;

Now any database you've created on the MASTER server will be replicated over to the SLAVE server.

Backup & Restore

Backup

Command line
Mysqldump -u root -p a5 > a5_backup.sql

Restore

MYSQL

Create database a55;

Command line

Mysql -u root -p a55 > a5_backup.sql