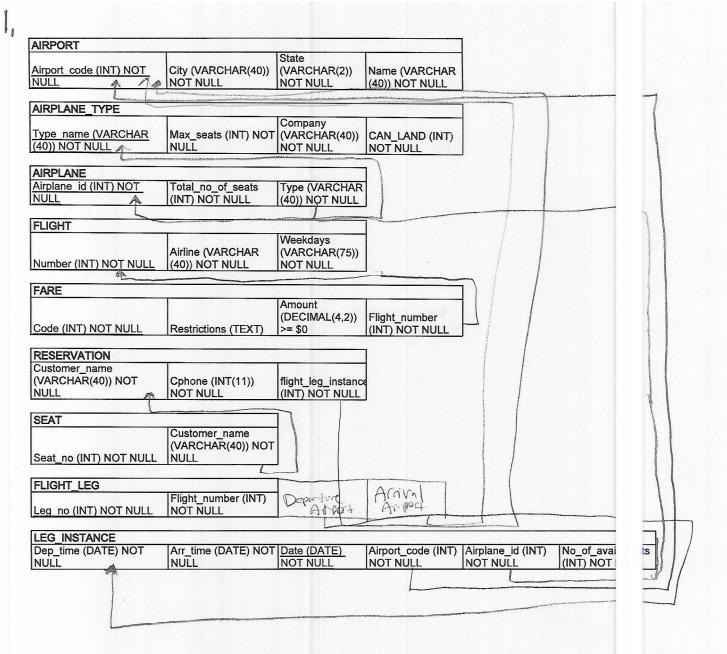
Merrick, David

CS 275

27 April, 2012

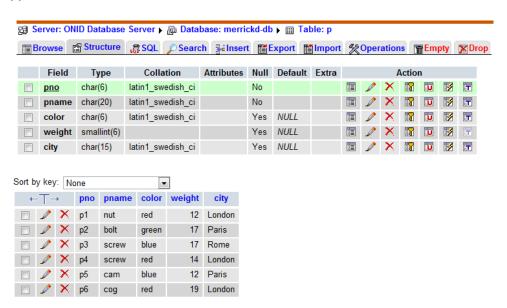
Assignment 3



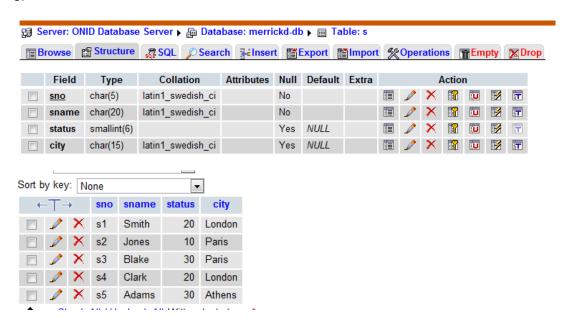
2. You will be graded on being able to use the PHPMyAdmin web database.

You will import .sql files/scripts, create/populate your database with tables, and save .sql files/scripts.

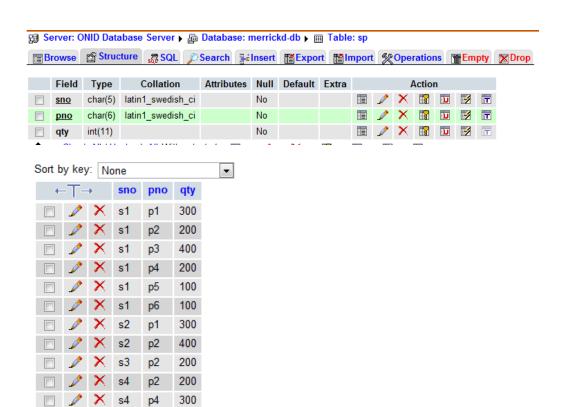
P:



S:



SP:



s4

p4

300 400 3. Using the COMPANY database we've been discussing in class, take the ER diagram and conceptual schema and write/generate a .sql script that creates the tables capturing all the information from the design. **NOTE: Make sure you use the InnoDB storage engine, instead of the default MyISAM. In addition, write/generate a .sql script (or set of scripts) that populates the tables with the relational state below.

```
-- phpMyAdmin SQL Dump
-- version 2.11.9.4
-- http://www.phpmyadmin.net
-- Host: oniddb
-- Generation Time: Apr 24, 2012 at 03:11 PM
-- Server version: 5.1.49
-- PHP Version: 5.2.6-1+lenny12
SET SQL_MODE="NO_AUTO_VALUE_ON_ZERO";
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;
-- Database: `merrickd-db`
-- Table structure for table `DEPARTMENT`
CREATE TABLE IF NOT EXISTS `DEPARTMENT` (
  `Dname` varchar(15) NOT NULL,
  `Dnumber` int(11) NOT NULL,
  `Mgr_ssn` char(9) NOT NULL,
  `Mgr_start_date` date DEFAULT NULL,
 PRIMARY KEY ('Dnumber'),
 UNIQUE KEY `Dname` (`Dname`),
 KEY `Mgr_ssn` (`Mgr_ssn`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
-- Dumping data for table `DEPARTMENT`
INSERT INTO `DEPARTMENT` (`Dname`, `Dnumber`, `Mgr_ssn`, `Mgr_start_date`) VALUES
('Headquarters', 1, '888665555', '1981-06-19'),
('Administration', 4, '987654321', '1995-01-01'),
('Research', 5, '333445555', '1988-05-22');
-- Table structure for table `DEPENDENT`
CREATE TABLE IF NOT EXISTS `DEPENDENT` (
```

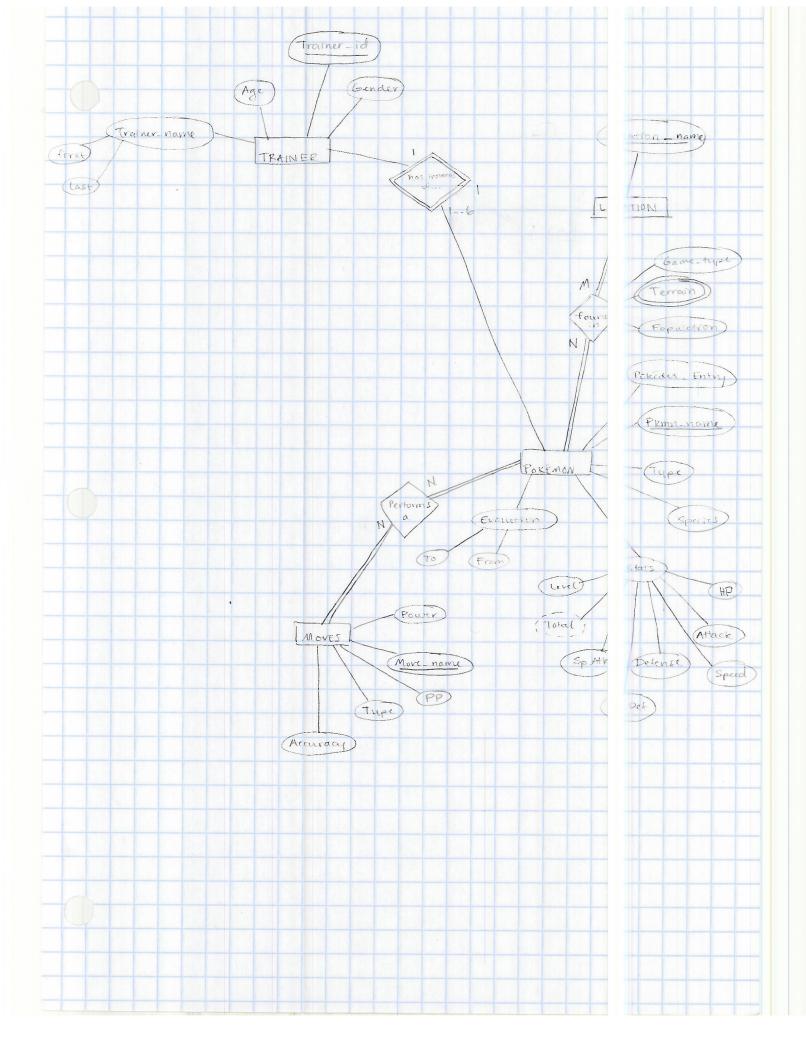
```
`Essn` char(9) NOT NULL,
  `Dependent_name` varchar(15) NOT NULL,
  `Sex` char(1) DEFAULT NULL,
  `Bdate` date DEFAULT NULL,
  `Relationship` varchar(8) DEFAULT NULL,
 PRIMARY KEY (`Essn`, `Dependent_name`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
-- Dumping data for table `DEPENDENT`
INSERT INTO `DEPENDENT` (`Essn`, `Dependent_name`, `Sex`, `Bdate`, `Relationship`) VALUES
('123456789', 'Alice', 'F', '1988-12-30', 'Daughter'),
('123456789', 'Elizabeth', 'F', '1967-05-05', 'Spouse'),
('123456789', 'Michael', 'M', '1988-01-04', 'Son'),
('333445555', 'Alice', 'F', '1986-04-05', 'Daughter'),
('333445555', 'Joy', 'F', '1958-05-03', 'Spouse'),
('333445555', 'Theodore', 'M', '1983-10-25', 'Son'),
('987654321', 'Abner', 'M', '1942-02-28', 'Spouse');
-- Table structure for table `DEPT LOCATIONS`
CREATE TABLE IF NOT EXISTS `DEPT LOCATIONS` (
  `Dnumber` int(11) NOT NULL,
  `Dlocation` varchar(15) NOT NULL,
 PRIMARY KEY (`Dnumber`, Dlocation`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
-- Dumping data for table `DEPT_LOCATIONS`
INSERT INTO `DEPT_LOCATIONS` (`Dnumber`, `Dlocation`) VALUES
(1, 'Houston'),
(4, 'Stafford'),
(5, 'Bellaire'),
(5, 'Houston'),
(5, 'Sugarland');
-- Table structure for table `EMPLOYEE`
CREATE TABLE IF NOT EXISTS `EMPLOYEE` (
  `Fname` varchar(15) NOT NULL,
  `Minit` char(1) DEFAULT NULL,
```

```
`Lname` varchar(15) NOT NULL,
  `Ssn` char(9) NOT NULL,
  `Bdate` date DEFAULT NULL,
  `Address` varchar(30) DEFAULT NULL,
  `Sex` char(1) DEFAULT NULL,
  `Salary` decimal(10,2) DEFAULT NULL,
  `Super ssn` char(9) DEFAULT NULL,
  `Dno` int(11) NOT NULL,
 PRIMARY KEY (`Ssn`),
 KEY `Super_ssn` (`Super_ssn`),
 KEY `Dno` (`Dno`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
-- Dumping data for table `EMPLOYEE`
INSERT INTO `EMPLOYEE` (`Fname`, `Minit`, `Lname`, `Ssn`, `Bdate`, `Address`, `Sex`, `Salary`, `
Super_ssn`, `Dno`) VALUES
('John', 'B', 'Smith', '123456789', '1985-01-09', '731 Fondren, Houston, TX', 'M', 30000.00,
'333445555', 5),
('Franklin', 'T', 'Wong', '333445555', '1955-12-08', '638 Voss, Houston, TX', 'M', 40000.00,
'888665555', 5),
('Alicia', 'J', 'Zelaya', '999887777', '1968-01-19', '3321 Castle, Spring, TX', 'F', 25000.00,
'987654321', 4),
('Jennifer', 'S', 'Wallace', '987654321', '1941-06-20', '291 Berry, Bellaire, TX', 'F', 43000.00
, '888665555', 4),
('Joyce', 'A', 'English', '453453453', '1972-07-31', '5631 Rice, Houston, TX', 'F', 25000.00,
'333445555', 5),
('Ramesh', 'K', 'Narayan', '666884444', '1962-09-15', '975 Fire Oak. Humble, TX', 'M', 38000.00,
 '333445555', 5),
('James', 'E', 'Borg', '888665555', '1937-11-10', '450 Stone, Houston, TX', 'M', 55000.00,
'NULL', 1),
('Ahmad', 'V', 'Jabbar', '987987987', '1969-03-29', '980n Dallas, Houston, Tx', 'M', 25000.00,
'987654321', 4);
-- Table structure for table `PROJECT`
CREATE TABLE IF NOT EXISTS `PROJECT` (
  `Pname` varchar(15) NOT NULL,
  `Pnumber` int(11) NOT NULL,
  `Plocation` varchar(15) DEFAULT NULL,
  `Dnum` int(11) NOT NULL,
 PRIMARY KEY ('Pnumber'),
 UNIQUE KEY `Pname` (`Pname`),
 KEY `Dnum` (`Dnum`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

```
-- Dumping data for table `PROJECT`
INSERT INTO `PROJECT` (`Pname`, `Pnumber`, `Plocation`, `Dnum`) VALUES
('ProductX', 1, 'Bellaire', 5),
('ProductY', 2, 'Sugarland', 5),
('ProductZ', 3, 'Houston', 5),
('Computerization', 10, 'Stafford', 4),
('Reorganization', 20, 'Houston', 1),
('Newbenefits', 30, 'Stafford', 4);
-- Table structure for table `WORKS_ON`
CREATE TABLE IF NOT EXISTS `WORKS_ON` (
  `Essn` char(9) NOT NULL,
 `Pno` int(11) NOT NULL,
  `Hours` decimal(3,1) NOT NULL,
 PRIMARY KEY (`Essn`, `Pno`),
 KEY `Pno` (`Pno`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Dumping data for table `WORKS_ON`
INSERT INTO `WORKS_ON` (`Essn`, `Pno`, `Hours`) VALUES
('123456789', 1, 32.5),
('123456789', 2, 7.5),
('333445555', 2, 10.0),
('333445555', 3, 10.0),
('333445555', 10, 10.0),
('333445555', 20, 10.0),
('453453453', 1, 20.0),
('453453453', 2, 20.0),
('666884444', 3, 40.0),
('888665555', 20, 0.0),
('987654321', 20, 15.0),
('987654321', 30, 20.0),
('987987987', 10, 35.0),
('987987987', 30, 5.0),
('999887777', 10, 10.0),
('999887777', 30, 30.0);
```

4. Propose a real-world database application for your term project, which involves at least 3-4 different relation schema/table with each table having at least four properties. You may work in teams of two or individually. Please specify which of these options you are choosing in your proposal, and if you choose to work as a team, then please submit your both team member's name.

I'm working with Heather Warman, and our project will be a database of Pokemon. We will have related tables for trainers, locations, Pokemon, and vital stats of the Pokemon.



POKEMON									
Pkmn name	Туре	Species	Pokedex_entry	Evolves_to	Evolves_from	Moves Hp Attack	Defense	Sp_atk Sp_def	of Speed Total
1									
MAST									
Trainer_id	Pk1	Pk2	Pk3	Pk4	Pk5	Pk6			
TRAINER									
Trainer_name_first	Trainer_name_last	Age	Trainer id	Gender					
			->						
TYPE_EFFECTIVENESS	S								
Weakness_to	Resistent_to	Immune_to	Type						
			→						
MOVES									
Move name	Туре	Power	Accuracy	Pp					
P									
LOCATION									
Pkmn_name	Rate	Game_type	Terrain_found_in	Location_in	Location name				
						3			