Our Database will feature 3 different classes of users: physicians, receptionists, and patients. The types of operations each will be able to do include, but are not limited, to the ones identified below.

- Physician
    - Insert a prescription to for a customer to the DB
    - Insert a lab test for a customer to the DB
    - Update patient's medical record
    - View patient’s medical record
    - View patient’s lab result
    - View their appointments for certain dates
- Receptionist
    - Insert a new employee to the DB
    - Insert an appointment to the DB
    - Insert a patient to the DB
    - Update employee
    - Update appointment
    - Update patient
    - Delete an employee from the DB
    - Delete an appointment from the DB
    - Delete a patient from the DB
- Patient
    - View their medical record / personal information
    - View their scheduled lab result / lab tests
    - View their appointments
    - View their Prescriptions

Deliverables:

Deliverable 1: Identify the different kinds of users that your application will service.

Physician, Receptionist, Patient

Deliverable 2. You need to have at least one INSERT statement:

Insert a new medical record for a patient

Deliverable 3: You need to have at least one DELETE statement.

Delete an appointment from the DB

Deliverable 4: You need to have at least one UPDATE statement.

Update the address of a patient

Deliverable 5: At least one query must join 3 or more tables.

Return the test results and the ordering doctor's name of a given patient
Join on Test, LabOrder, and Doctor where patient_id = id

Deliverable 6 & 7: At least 2 other queries need to join 2 or more tables

1. Select all past medication (Join on prescription and drug)
2. Select all doctor name, clinic name, and comments of a appointment for a patient (Join on clinic, physician, appointment)

Deliverable 8: At least one query must be an interesting GROUP BY query (aggregation). Describe it.

Join prescription and drug, and count how many patients have been prescribed each unique drug.

Join appointment and physician and count how many patients was seen during the past year

Deliverable 9-11: Describe the other queries you plan to have (these can be simpler queries), so that you have at least 10 SQL statements overall.

+3 queries:

Get the name and phone number of all employees who work at a clinic at a certain address
Get all patients who have not been immunized with the latest flu vaccine
Get all patients who have more than one doctor

Deliverable 12: You need to have at least one view for your database, created using the CREATE VIEW statement in SQL.

e.g. a patient with pid 12345 can view all appointments for that patient only
CREATE VIEW [pid_12345_appts] AS
SELECT * FROM Appointments WHERE
Appointments.pid = 12345

Deliverable 13: Division of labour

Task	**Assigned**
Create tables/DB objects to a sql file	Josh, Masoud
Create sql file with insert statements to populate tables	Josh, Chris
Initialize server	Chris, Winson
Hookup PHP with SQL	Chris, Winson
Translate queries into SQL statements runnable by PHP	Chris, Josh, Winson, Masoud
Design webapp	Chris, Winson, Masoud

Updates to ER:
Added dosage, duration to Prescriptions
Added name to Clinic