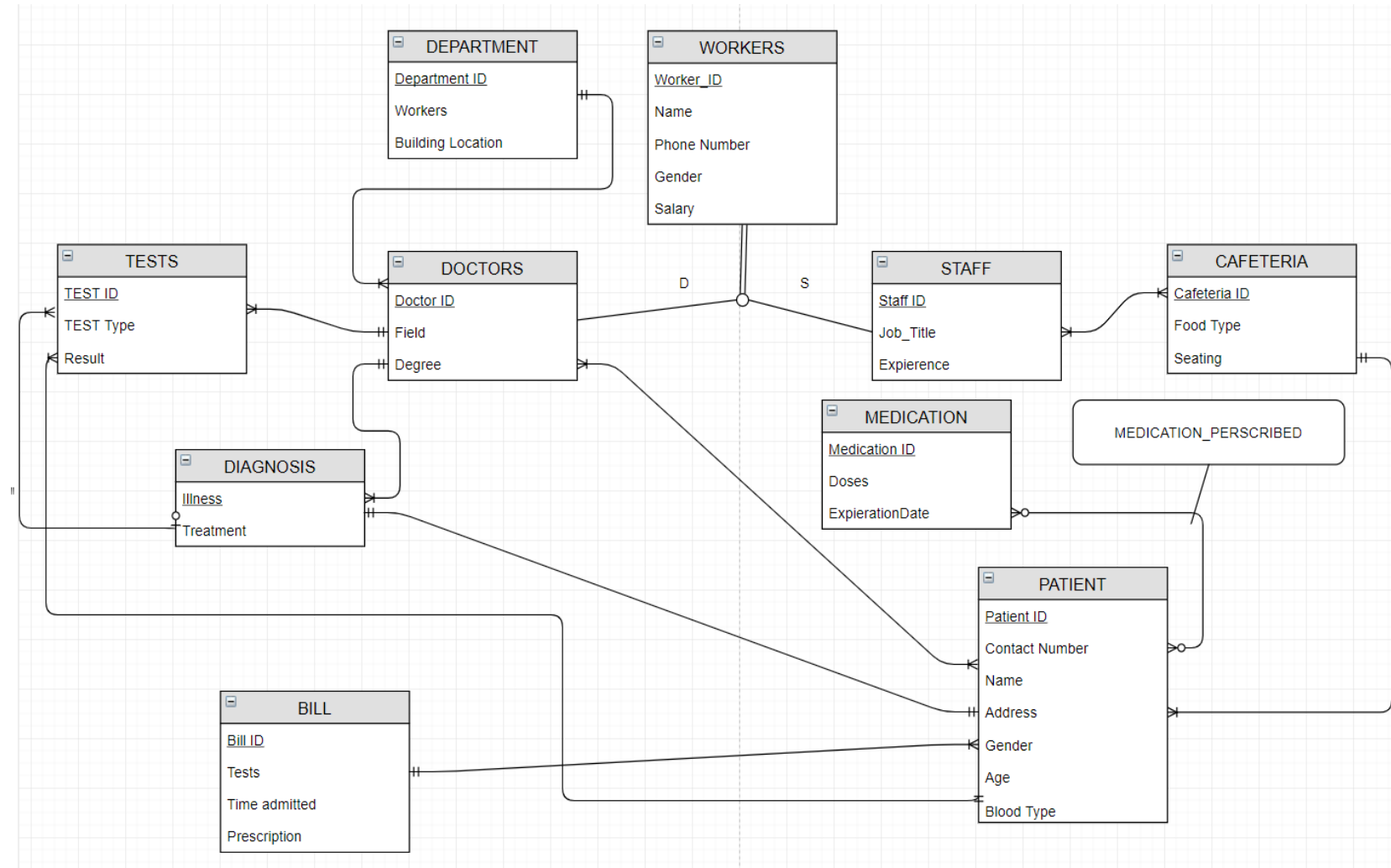


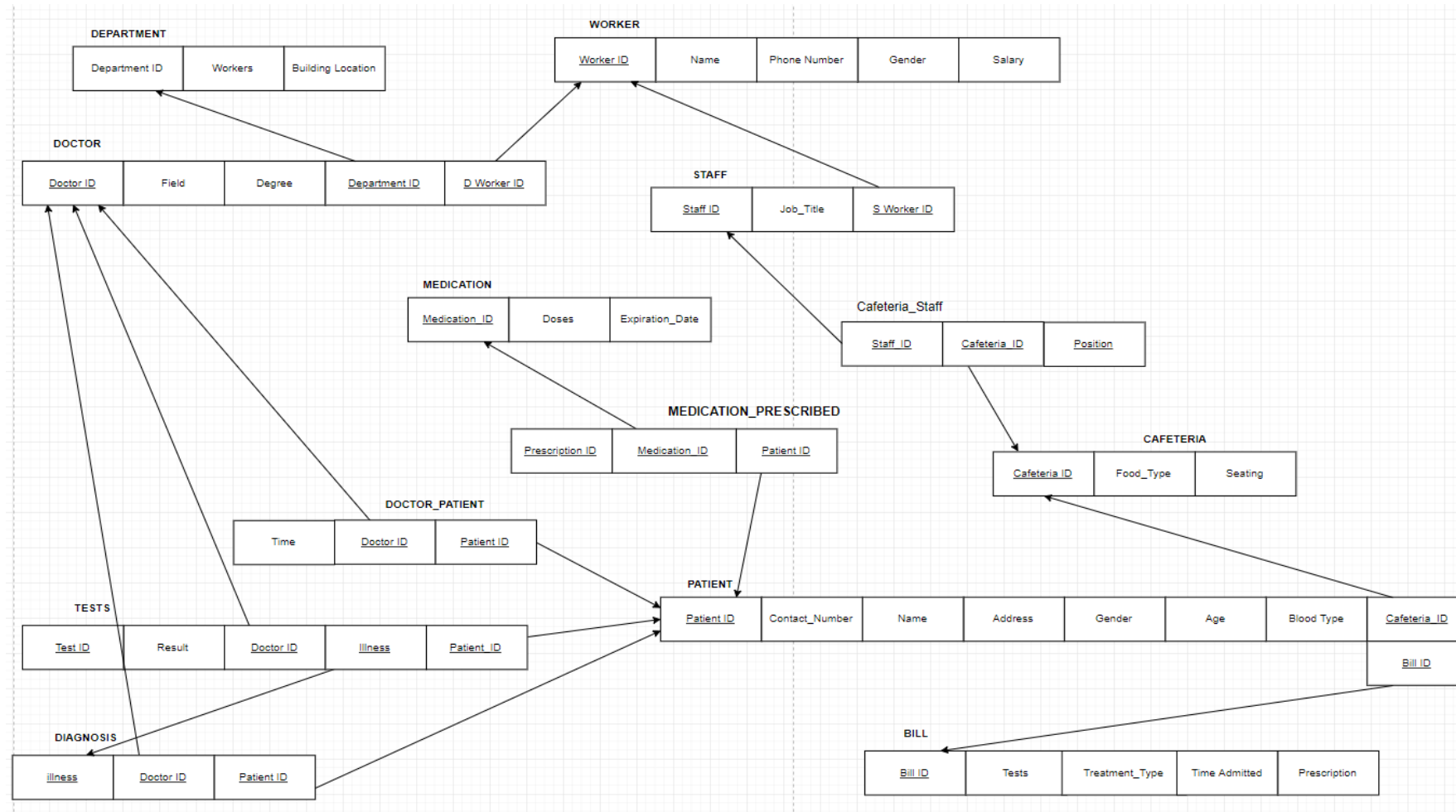
Hospital Database

Team Members: Zack Rosa, Branden Dao, and Leon Chen

ERD



Relational Model (EERD)



Sample DDL (Not Tested!)

```
DROP TABLE IF EXISTS WORKER;  
DROP TABLE IF EXISTS DEPARTMENT;
```

```
# Checked  
CREATE TABLE DEPARTMENT (  
    Department_ID          varchar(15) NOT NULL,  
    Workers                 INT,  
    Building_Location       VARCHAR(15),  
    CONSTRAINT Department_PK PRIMARY KEY (Department_ID)  
);
```

```
# Checked  
CREATE TABLE WORKER (  
    Worker_ID              INT NOT NULL,  
    fname                   VARCHAR(10),  
    lname                   VARCHAR(10),  
    Gender                  CHAR(1),  
    telephone               VARCHAR(14),  
    Salary                   INT,  
    CONSTRAINT Worker_PK PRIMARY KEY (Worker_ID)  
);
```

```
INSERT INTO Department VALUES (' ICU ', ' 20 ', ' Dobson ');  
INSERT INTO Department VALUES (' Pediatric ', ' 26 ', ' Wheeler ');  
INSERT INTO Department VALUES (' ER ', ' 32 ', ' Dobson ');  
INSERT INTO Department VALUES (' Burn Center ', ' 15 ', ' Campbell ');  
INSERT INTO Department VALUES (' Pharmacy ', ' 8 ', ' Wheeler ');
```

```
INSERT INTO Worker VALUES (' 119275 ', ' Henry ', ' Fuller ', ' M ', ' (978)123-1234 ', ' 127000 ');  
INSERT INTO Worker VALUES (' 122842 ', ' Zack ', ' Futa ', ' M ', ' (123)436-1236 ', ' 122000 ');  
INSERT INTO Worker VALUES (' 197531 ', ' Cam ', ' Ryder ', ' M ', ' (543)753-1327 ', ' 72000 ');  
INSERT INTO Worker VALUES (' 128575 ', ' Janet ', ' Grosmen ', ' F ', ' (617)355-7684 ', ' 150000 ');  
INSERT INTO Worker VALUES (' 124865 ', ' Michelle ', ' Haverhill ', ' F ', ' (631)125-1235 ', ' 125000 ');  
INSERT INTO Worker VALUES (' 118467 ', ' Oliver ', ' Mansman ', ' M ', ' (934)126-6421 ', ' 49000 ');  
INSERT INTO Worker VALUES (' 195538 ', ' Lisa ', ' Perez ', ' F ', ' (682)165-8523 ', ' 64000 ');
```

4 Simple Queries (Lecture 6)

```
SELECT fname, lname  
FROM worker  
WHERE gender = 'F'
```

fname	lname
Tilda	White
Michelle	Haverhill
Janet	Grosman
Lisa	Perez

Output = Female Workers

```
SELECT Salary  
FROM worker  
WHERE Salary BETWEEN 70000 AND 180000  
ORDER BY Salary DESC
```

Salary
180000
150000
127000
125000
122000
100000
72000

Output = Salaries of workers between
(in decreasing order)

```
SELECT Doses  
FROM medication  
WHERE Doses is NOT null
```

Doses
40
10
80

Output = the number of doses

```
SELECT Address  
FROM patient  
WHERE Address LIKE '%Vancouver Way%'
```

Address
63 Vancouver Way

Output = Address of patient who live at

3 Intermediate Queries (Lecture 7)

```
SELECT sum(Salary)  
FROM worker
```

```
sum(Salary)  
1041000
```

Output = the sum of all the workers combined

3 Advanced Queries (Lecture 8)

