Name: Hong Zhao

Hospital db – Databases and tables

1. Create a database “**hospital_db**”
2. Exercise -01
    - Create tables for Physician, Department
    - Insert values into them
    - Understand Primary and Foreign Keys and table relationships
3. Exercise -02
    - Create tables for Affiliated_With, Procedures, Trained_In, Patient
    - Insert values into them
4. Exercise -03
    - Create tables for Nurse, Procedures, Appointment, Medication
    - Insert values into them
5. Exercise -04
    - Create tables for Prescribes, Block, Room, On_Call, Stay, Undergoes
    - Insert values into them

Putting them together:

1. Create a new database **hospital_database**
2. Create scripts from one file
3. Insert data into **hospital_database** from one data file

Putting backup and restore:

1. Take the back up of **hospital_database**
2. Restore it as a new database **hospital_database_new**

SQL Exercise

```
select * from department;

select * from physician ;

select * from affiliated_with;

select * from patient

select * from nurse;

select * from appointment
```

--find general medicine doctors name

```
select a.name, b.department, c.name from physician a

join affiliated_with b

join department c

on c.departmentid= b.department

on b.physician = a.employeeid

where b.department=2
```

--find which patient - doctor visit

```
select a.name patient_name, b.name doctor_name from patient a

join physician b

on a.pcp = b.employeeid
```

--find room details

```
select * from room

select unavailable, count(*) from room

group by unavailable
```

--total patient count on blockcode=2

```
select count(*) from room where blockcode=2
```

--check procedure details

```
select * from undergoes
```

-- find hospital workload such as procedure time and doctors, nurse details

```
select a.name as doctor_name, b.name as nurse_name, c.dateundergoes as proceduretime
from physician a
join nurse b
join undergoes c
on b.employeeid= c.assistingnurse
on a.employeeid = c.physician
where c.physician=3
```

--patient mdeication and priscription details

```
select * from medication;
select a.name, b.dose, c.name,c.brand from patient a
join prescribes b
join medication c
on c.code = b.medication
on a.ssn = b.patient
```

--trained in procedures

```
select * from procedures;
select * from trained_in;
select treatment, count(*) from trained_in group by treatment
```