

Name: _____

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

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 medication and prescription 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
```