

Hospitals in Illinois

Database Management Concepts

CIS-240-65

Project Assignment 2

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May 06, 2024

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Database Specifications

The purpose of creating a database of Hospitals in Illinois is to organize the available hospitals and their available services, as well as know which doctors and available beds each hospital has. By centralizing information on hospitals, medical departments, services, doctors, and bed capacities, the database promotes transparency, and facilitates communication between hospitals and patients.

The database is made of six tables, each of which serves a specific function. The Hospital table lists the hospital names, full addresses, zip codes, phone numbers, type, license number, and expiry date. The Medical Department table details the types of departments that are offered by hospitals. Additionally, the Service table specifies the service name offered by each hospital along with their corresponding medical department. The database also includes the Doctors table which has information about the doctors that work in each facility. Finally, the tables Authorized Beds and Beds by Hospital offer insights into each facility's capacity to accommodate patients.

Overall, by creating a database of hospitals in Illinois, patients can review information about hospitals, empowering them to help in choosing the best option for the treatment they are searching for. Easy access and the centralization of this type of information can also help patients in navigating information tailored to their individual needs, which would help them in make informed decisions.

Database Tables with Corresponding Data

Hospital

HospitalNum	HospitalName	Address	City	County	Zip	Phone	License Num	Hospital Type	ExpDate
1	Advocate Christ Hospital & Medical Center	4440 W 95th Street	Oak Lawn	Cook	60453	708-684-8000	0000315	General Hospital	12/31/2024
2	Alton Memorial Hospital	1 Memorial Drive	Alton	Madison	62002	618-463-7311	0000026	General Hospital	12/31/2024
3	Blessing Hospital	1005 Broadway St	Quincy	Adams	62301	271-223-1200	0000141	General Hospital	12/31/2024
4	Community Hospital of Staunton	400 N Caldwell St	Staunton	Madison	62088	618-635-2200	0000414	Critical Access Hospital	6/30/2024
5	Decatur Memorial Hospital	2300 N Edward Street	Decatur	Macon	62526	217-876-8121	0000471	General Hospital	12/31/2024
6	Elmhurst Memorial Hospital	155 E Brush Hill Rd	Elmhurst	DuPage	60126	331-221-0130	0005751	General Hospital	6/24/2024
7	Fairfield Memorial Hospital	303 NW 11th Street	Fairfield	Wayne	62837	618-842-2611	0000679	Critical Access Hospital	12/31/2024
8	Loyola University Medical Center	2160 S 1st Ave.	Maywood	Cook	60153	708-216-9000	0005801	General Hospital	6/29/2024

Medical Department

DptNum	DptName
1001	Mental Health
1002	Cardiology
1003	Gastroenterology
1004	Oncology
1005	Orthopedics
1006	Physiotherapy

1007	Radiology
1008	Audiology
1009	Neurology

Service

ServiceNum	ServiceName	HospitalNum	DptNum
101	Adolescent/Adult anxiety program	6	1001
102	Artificial disc replacement	1	1005
103	Audiology diagnostic and evaluation	4	1008
104	Audiology surgery	8	1008
105	Cardiac diagnostic testing	2	1002
106	Cardiac rehabilitation program	4	1002
107	Cardiac stress test	7	1002
108	Cervical cancer	8	1004
109	Chest physiotherapy	1	1006
110	Cochlear implant	8	1008
111	Custom earmolds	4	1008
112	Custom hearing protection	4	1008
113	Diagnostic and interventional neuroradiology	5	1009
114	Gastro Services	2	1003
115	Geriatric fracture fixation	7	1005
116	Hand surgery	3	1005
117	Hearing evaluation	8	1008
118	Human papillomavirus	3	1004
119	Joint replacement	3	1005
120	Major depressive disorder	6	1001
121	Medical oncology	2	1004
122	Neurosurgery	5	1009
123	Orthopedic rehabilitation	3	1005
124	Positron Emission Tomography/Computed Tomography – PET/CT	7	1007
125	Post-partum depression	6	1001
126	Radiation oncology	2	1004
127	Skin cancer screenings	2	1004
128	Spinal cord rehabilitation	5	1009
129	Total knee replacement	7	1005
130	Upper endoscopy ultrasound	8	1003

Doctors

DocNum	LName	FName	Office Address	City	Zip	Office Phone	DptNum	HospitalNum
D001	Aldurra	Ghassan	155 E. Brush Hill Road	Elmhurst	60126	331-221-1000	1001	6
D002	Allam	Hesham	2 Memorial Drive Suite 207	Decatur	62526	217-876-2757	1009	5
D003	Ansstass	George	4000 N Illinois Ln Ste C	Belleville	62226	314-747-1005	1004	2
D004	Austin	Xiao-Tian	303 NW 11th Street	Fairfield	62837	618-842-2611	1007	7
D005	Balmforth	Randy	303 NW 11th Street	Fairfield	62837	618-842-2611	1007	7
D006	Bilderback	Cody	4 Memorial Dr. Ste 230	Alton	62002	314-747-1005	1003	2
D007	Blank	Kory	303 NW 11th Street	Fairfield	62837	618-847-4282	1005	7
D008	Bresch	James	1550 Northwest Highway, Suite 220	Park Ridge	60068	847-824-3198	1005	1
D009	Cullinane	Timothy	386 N. York Road Suite 100	Elmhurst	60126	630-834-1557	1001	6
D010	Gleason	Thomas	900 Rand Road Suite 200	Des Plaines	60016	847-375-3000	1005	1
D011	Gondi	Rama	2 Memorial Dr Ste 102	Alton	62002	314-747-1005	1002	2
D012	Heng	Rafe	400 N.Caldweell	Staunton	62088	618-635-2200	1002	4
D013	Karadaghy	Ahmad	4 Memorial Dr Ste 230	Alton	62002	314-747-1005	1003	2
D014	Leya	Jack	2160 S 1st Ave.	Maywood	60153	888-584-7888	1003	8
D015	McGowan	Brett	927 Broadway	Quincy	62301	217-214-3830	1004	3
D016	Pimlott	Bryan	4800 Maine St.	Quincy	62305	217-214-0444	1005	3
D017	Potkul	Ronald	2160 S 1st Ave.	Maywood	60153	888-584-7888	1004	8
D018	Short	Kelly	9375 W Church North Entrance	Des Plaines	60016	847-824-5165	1006	1
D019	Smith	Katrina	400 N Caldwell St.	Staunton	62088	618-635-4305	1008	4
D020	Starrett	Robert	213 NW 10th St., Suite B	Fairfield	62837	618-842-4617	1002	7
D021	Stauffer	Michelle	9375 W Church North Entrance	Des Plaines	60016	847-824-5165	1006	1

D022	Tatineni	Satyam	213 NW 10th St., Suite B	Fairfield	62837	618-842-4617	1002	7
D023	Vlacich	Gregory	6 Memorial Dr	Alton	62002	314-747-1005	1004	2
D024	Wilke-Allen	Stefanie	2160 S 1st Ave.	Maywood	60153	888-584-7888	1008	8
D025	Wood	Erin	4800 Maine St.	Quincy	62305	217-214-0444	1005	3

Authorized Beds

BedID	BedType
B01	Medical-Surgical Beds
B02	Intensive Care Beds
B03	Pediatric Beds
B04	OB/Gynecology Beds
B05	Long-Term Care Beds
B06	Neonatal ICU Beds
B07	Rehabilitation Beds
B08	Acute Mental Illness Beds
B09	Long-Term Care Acute Care Beds

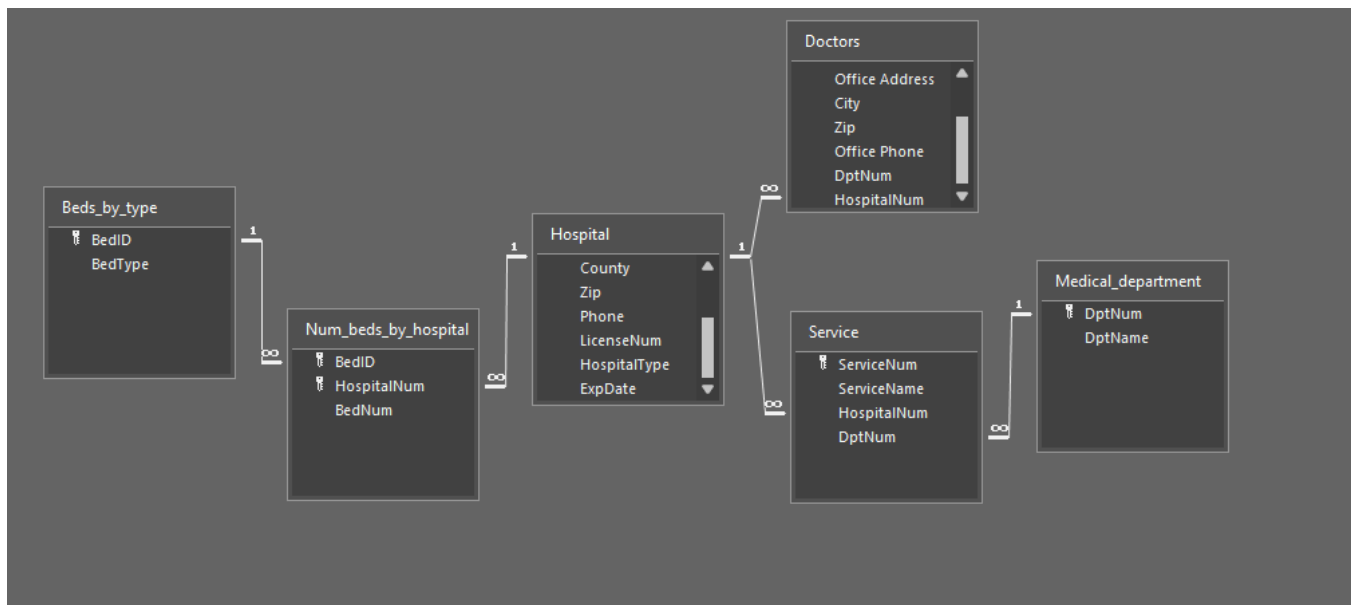
Beds by Hospital

BedID	HospitalNum	BedNum
B01	1	425
B01	2	117
B01	3	198
B01	4	25
B01	5	204
B01	6	196
B01	7	21
B01	8	312
B02	1	170
B02	2	12
B02	3	27
B02	5	32
B02	6	39
B02	7	4
B02	8	121
B03	1	45
B03	2	4

BedID	HospitalNum	BedNum
B05	3	20
B05	7	30
B06	1	61
B06	8	50
B07	1	37
B07	3	18
B08	3	41
B08	5	20

B03	3	20
B03	5	18
B03	8	34
B04	1	56
B04	2	28
B04	3	25
B04	5	26
B04	6	23
B04	8	30

ER Diagram



Data Entry Forms

Hospital Form

Hospital Form	
HospitalNum	1
HospitalName	Advocate Christ Hospital & Medical Center
Address	4440 W 95th Street
City	Oak Lawn
County	Cook
Zip	60453
Phone	708-684-8000
LicenseNum	0000315
HospitalType	General Hospital
ExpDate	12/31/2024

Medical Department Form

Medical_Department Form

DptNum

1001

DptName

Mental Health

Service Form

Service Form

ServiceNum

101

ServiceName

Adolescent/Adult anxiety program

HospitalNum

6

DptNum

1001

Doctors Form

Doctors	
DocNum	D001
LName	Aldurra
FName	Ghassan
Office Address	155 E. Brush Hill Road
City	Elmhurst
Zip	60126
Office Phone	331-221-1000
DptNum	1001
HospitalNum	6

Authorized Beds Form

Authorized Beds Form	
BedID	B01
BedType	Medical-Surgical Beds

Beds by Hospital Form

Beds by hospital Form

▶

BedID

B01

HospitalNum

1

BedNum

425

Reports

Hospital Table Report

Hospital Report

Hos	HospitalName	Address	City	County	Zip	Phon	Licen	HospitalTy	Date
1	Advocate Christ Hospit	4440 W 95th Street	Oak Lawn	Cook	604	708-6	0000	General Ho	####
2	Alton Memorial Hospita	1 Memorial Drive	Alton	Madison	620	618-4	0000	General Ho	####
3	Blessing Hospital	1005 Broadway St	Quincy	Adams	623	271-2	0000	General Ho	####
4	Community Hospital of	400 N Caldwell St	Staunton	Macoupon	620	618-6	0000	Critical Acc	####
5	Decatur Memorial Hos	2300 N Edward Street	Decatur	Macon	625	217-8	0000	General Ho	####
6	Elmhurst Memorial Hos	155 E Brush Hill Rd	Elmhurst	Du Page	601	331-2	0005	General Ho	####
7	Fairfield Memorial Hos	303 NW 11th Street	Fairfield	Wayne	628	618-8	0000	Critical Acc	####
8	Loyola University Medic	2160 S 1st Ave.	Maywood	Cook	601	708-2	0005	General Ho	####

Medical Department Table Report

Medical Department Report

DptNum	DptName
1001	Mental Health
1002	Cardiology
1003	Gastroenterology
1004	Oncology
1005	Orthopedics
1006	Physiotherapy
1007	Radiology
1008	Audiology
1009	Neurology

Service Table Report

Service Report

ServiceNum	ServiceName	HospitalNum	DptNum
101	Adolescent/Adult anxiety program	6	1001
102	Artificial disc replacement	1	1005
103	Audiology diagnostic and evaluation	4	1008
104	Audiology surgery	8	1008
105	Cardiac diagnostic testing	2	1002
106	Cardiac rehabilitation program	4	1002
107	Cardiac stress test	7	1002
108	Cervical cancer	8	1004
109	Chest physiotherapy	1	1006
110	Cochlear implant	8	1008
111	Custom earmolds	4	1008
112	Custom hearing protection	4	1008
113	Diagnostic and interventional neuroradiology	5	1009
114	Gastro Services	2	1003
115	Geriatric fracture fixation	7	1005
116	Hand surgery	3	1005
117	Hearing evaluation	8	1008
118	Human papillomavirus	3	1004
119	Joint replacement	3	1005
120	Major depressive disorder	6	1001
121	Medical oncology	2	1004
122	Neurosurgery	5	1009
123	Orthopedic rehabilitation	3	1005
124	Positron Emission Tomography/Computed Tomography – PET/CT	7	1007
125	Post-partum depression	6	1001
126	Radiation oncology	2	1004
127	Skin cancer screenings	2	1004
128	Spinal cord rehabilitation	5	1009
129	Total knee replacement	7	1005

Doctors Table Report

Doctors Report

Doc	LName	FName	Office Address	City	Zip	Office P	Dpt	Hosp
D00	Aldurra	Ghassan	155 E. Brush Hill Road	Elmhurst	601	331-221	100	6
D00	Allam	Hesham	2 Memorial Drive Suite 207	Decatur	625	217-876	100	5
D00	Ansstass	George	4000 N Illinois Ln Ste C	Belleville	622	314-747	100	2
D00	Austin	Xiao-Tian	303 NW 11th Street	Fairfield	628	618-842	100	7
D00	Balmforth	Randy	303 NW 11th Street	Fairfield	628	618-842	100	7
D00	Bilderback	Cody	4 Memorial Dr. Ste 230	Alton	620	314-747	100	2
D00	Blank	Kory	303 NW 11th Street	Fairfield	628	618-847	100	7
D00	Bresch	James	1550 Northwest Highway, Suite 22	Park Ridge	600	847-824	100	1
D00	Cullinane	Timothy	386 N. York Road Suite 100	Elmhurst	601	630-834	100	6
D01	Gleason	Thomas	900 Rand Road Suite 200	Des Plaines	600	847-375	100	1
D01	Gondi	Rama	2 Memorial Dr Ste 102	Alton	620	314-747	100	2
D01	Heng	Rafe	400 N.Caldweell	Staunton	620	618-635	100	4
D01	Karadaghy	Ahmad	4 Memorial Dr Ste 230	Alton	620	314-747	100	2
D01	Leya	Jack	2160 S 1st Ave.	Maywood	601	888-584	100	8
D01	McGowan	Brett	927 Broadway	Quincy	623	217-214	100	3
D01	Pimlott	Bryan	4800 Maine St.	Quincy	623	217-214	100	3
D01	Potkul	Ronald	2160 S 1st Ave.	Maywood	601	888-584	100	8
D01	Short	Kelly	9375 W Church North Entrance	Des Plaines	600	847-824	100	1
D01	Smith	Katrina	400 N Caldwell St.	Staunton	620	618-635	100	4
D02	Starrett	Robert	213 NW 10th St., Suite B	Fairfield	628	618-842	100	7
D02	Stauffer	Michelle	9375 W Church North Entrance	Des Plaines	600	847-824	100	1
D02	Tatineni	Satyam	213 NW 10th St., Suite B	Fairfield	628	618-842	100	7
D02	Vlacich	Gregory	6 Memorial Dr	Alton	620	314-747	100	2
D02	Wilke-Allen	Stefanie	2160 S 1st Ave.	Maywood	601	888-584	100	8
D02	Wood	Erin	4800 Maine St.	Quincy	623	217-214	100	3

Authorized Beds Table Report

Authorized Beds Report

BedID	BedType
B01	Medical-Surgical Beds
B02	Intensive Care Beds
B03	Pediatric Beds
B04	OB/Gynecology Beds
B05	Long-Term Care Beds
B06	Neonatal ICU Beds
B07	Rehabilitation Beds
B08	Acute Mental Illness Beds
B09	Long-Term Care Acute Care Beds

Beds by Hospital Table Report

Beds by hospital Report

BedID	HospitalNum	BedNum
B01	1	425
B02	1	170
B03	1	45
B04	1	56
B06	1	61
B07	1	37
B01	2	117
B02	2	12
B03	2	4

B04	2	28
B01	3	198
B02	3	27
B03	3	20
B04	3	25
B05	3	20
B07	3	18
B08	3	41
B01	4	25
B01	5	204
B02	5	32
B03	5	18
B04	5	26
B08	5	20
B01	6	196
B02	6	39
B04	6	23
B01	7	21
B02	7	4
B05	7	30

Query 1 Report

Query1 Report

HospitalName	Address	Phone	License
Advocate Christ Hospital & Medical Center	4440 W 95th Street	708-684-80	0000315
Loyola University Medical Center	2160 S 1st Ave.	708-216-90	0005801

Query 2 Report

Query2 Report

HospitalName	DptName	ServiceName
Loyola University Medical Center	Gastroenterology	Upper endoscopy ultrasound
	Audiology	Hearing evaluation
	Audiology	Cochlear implant
	Oncology	Cervical cancer
	Audiology	Audiology surgery

Query 3 Report

Query3 Report

LName	FName	Office Pho	DptName	HospitalName
Smith	Katrina	618-635-4	Audiology	Community Hospital of Staunton
Wilke-Allen	Stefanie	888-584-7	Audiology	Loyola University Medical Center

Query 4 Report

Query4 Report

ServiceName	DptName
Cardiac stress test	Cardiology
Geriatric fracture fixation	Orthopedics
Positron Emission Tomography/Computed Tomography – PET/CT	Radiology
Total knee replacement	Orthopedics

Query 5 Report

Query 5 Report

BedType	BedNum
Intensive Care Beds	170
Medical-Surgical Beds	425
Neonatal ICU Beds	61
OB/Gynecology Beds	56
Pediatric Beds	45
Rehabilitation Beds	37

Main Menu Form and Submenu Form


Main Menu Form

Main Menu

Open Data Entry Submenu Form

Open Queries Submenu Form

Open Reports Submenu Form



Submenu Forms

Data Entry Forms Submenu

Open Hospital Form

Open Medical Department Form

Open Service Form

Open Doctors Form

Open Authorized Beds Form

Open Beds by Hospital Form

Queries Submenu

Run Query 1

Run Query 2

Run Query 3

Run Query 4

Run Query 5

Reports Submenu



Queries and Queries Output

Query 1:

List the Hospital name, address, phone number and license number for all the hospitals that are in Cook County.

Output Q1:

HospitalName	Address	Phone	LicenseNum
Advocate Christ Hospital & Medical Center	4440 W 95th Street	708-684-8000	0000315
Loyola University Medical Center	2160 S 1st Ave.	708-216-9000	0005801

Query 2:

List the department name, and service name of all the services provided by the Loyola University Medical Center.

Output Q2:

Query2

DptName	ServiceName	HospitalName
Audiology	Audiology surgery	Loyola University Medical Center
Oncology	Cervical cancer	Loyola University Medical Center
Audiology	Cochlear implant	Loyola University Medical Center
Audiology	Hearing evaluation	Loyola University Medical Center
Gastroenterology	Upper endoscopy ultrasound	Loyola University Medical Center

Query 3:

List the doctor's last name, first name, office phone, department name, and hospital name, of all doctors that work in audiology medical department.

Output Q3:

LName	FName	Office Phone	DptName	HospitalName
Smith	Katrina	618-635-4305	Audiology	Community Hospital of Staunton
Wilke-Allen	Stefanie	888-584-7888	Audiology	Loyola University Medical Center

Query 4:

List the service name and department name for all the services provided by the Fairfield Memorial Hospital.

Output Q4:

ServiceName	DptName
Cardiac stress test	Cardiology
Geriatric fracture fixation	Orthopedics
Positron Emission Tomography/Computed Tomography – PET/CT	Radiology
Total knee replacement	Orthopedics

Query 5:

List the bed type and number of beds for all the authorized beds in the Advocate Christ Hospital & Medical Center.

Output Q5:

BedType	BedNum
Medical-Surgical Beds	425
Intensive Care Beds	170
Pediatric Beds	45
OB/Gynecology Beds	56
Neonatal ICU Beds	61
Rehabilitation Beds	37

References

Elmhurst Hospital - Main Campus | Edward-Elmhurst Health. (n.d.).

<https://www.eehealth.org/locations/elmhurst/elmhurst-hospital-main-campus/>

Fairfield Memorial Hospital. (n.d.). <https://www.fairfieldmemorial.org/>

Home | Advocate Christ Medical Center | Oak Lawn, Illinois (IL). (n.d.).

<https://www.advocatehealth.com/cmc/>

Home | Alton Memorial Hospital | Alton, Illinois (IL). (n.d.). <https://www.altonmemorialhospital.org/>

Home | Blessing Health System | Quincy, Illinois (IL). (n.d.). <https://www.blessinghealth.org/doctors>

IDPH Hospital Directory - Hospital Directory - data.illinois.gov. (n.d.).

https://data.illinois.gov/dataset/410idph_hospital_directory/resource/7251f22f-32e7-4b57-b854-e679deeb8b18

Illinois Hospital Report Card. (n.d.). Illinois Hospital Report Card.

<https://healthcarereportcard.illinois.gov/search>

Home page | Loyola Medicine. (n.d.). Loyola Medicine. <https://www.loyolamedicine.org/>

Lrs, & Site-Name. (n.d.). *Memorial Health.* Memorial Health. <https://memorial.health/>

Staunton Community Hospital. (n.d.). Community Hospital of Staunton.

<https://www.stauntonhospital.org/>