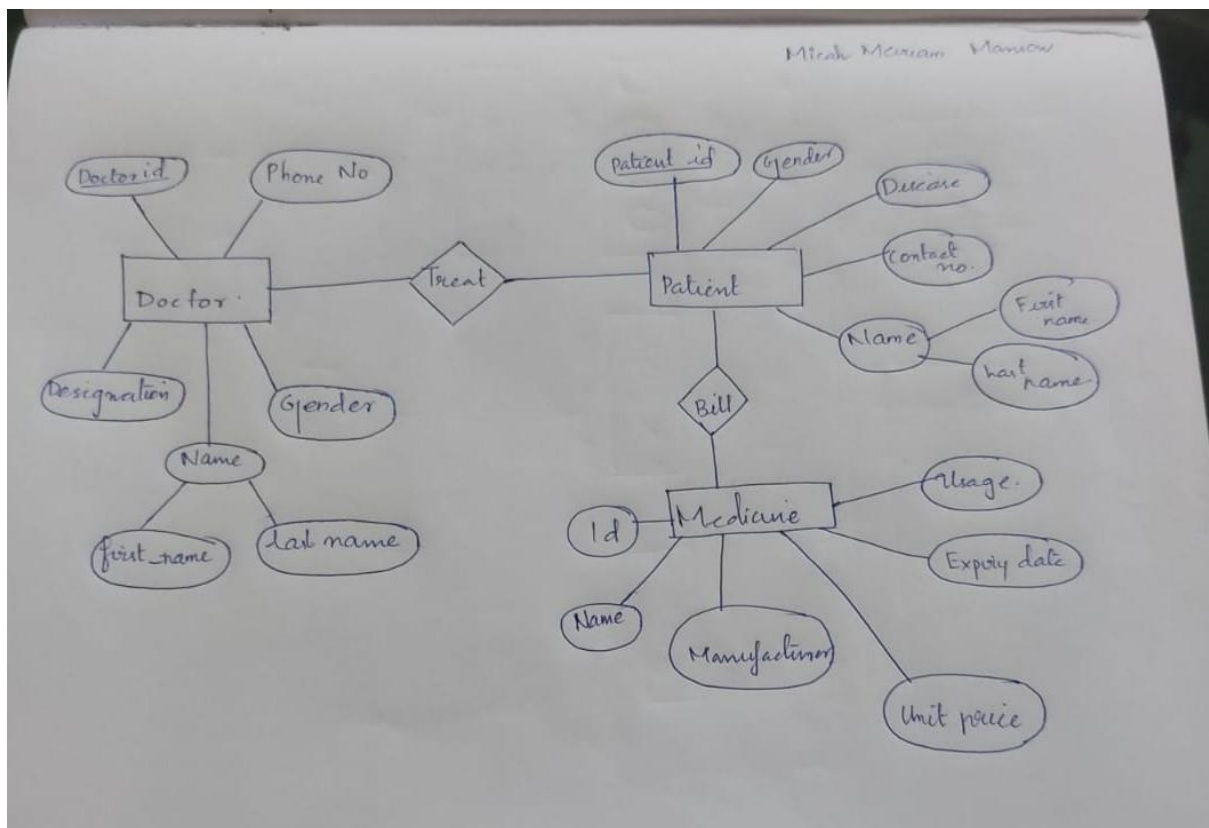


1.Create an ER diagram for Hospital management system.



2.Setup the Postgre sql on your machine and create a database.

3.Add tables respective to ER diagrams

id	first_name	last_name	disease	gender	contact_number
1	Nessa	Eustice	Asthma	Female	8743862008
2	Shari	Ginnaly	Diabetes	Female	8931060816
3	Annamaria	Priestman	Chronic Kidney Disease	Bigender	9498744883
4	Danica	Emmitt	Obesity	Female	8493639312
5	Terrel	Larderot	Obesity	Male	9867564532
6	Hillier	Proberts	Alzheimer's	Male	7691943989
7	Carlynn	Finker	Gastritis	Female	7154599186
8	Serene	Billo	Migraine	Female	6691570234
9	Catherina	Gobbett	Diabetes	Female	9108687041
10	Hestia	Farnworth	Depression	Female	6449277223
11	Fields	Jurtsch	Hypertension	Male	8788534184
12	Beverie	Stivers	Bronchitis	Female	8729109920
13	Cherin	Headly	Hypertension	Female	8935998770
14	Almeria	Dondon	Alzheimer's	Female	9469470507
15	Natividad	Grestrakes	Obesity	Non-binary	8431470552
16	Larry	Thonhon	Hunartansinn	Male	0508712158

#### 4. Add data to each table with minimum of 100 rows.

File Object Tools Help

Object Explorer

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    - Foreign Tables
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  - Login/Group Roles

al Manage... X public.Medicine/H... X Hospital Manage... X public.Patient/Ho... X public.Doctor/Hospital Management System/postgres@PostgreSQL 16 X

public.Doctor/Hospital Management System/postgres@PostgreSQL 16 X

Query Query History

```
1 SELECT * FROM public."Doctor"
2 ORDER BY id ASC
```

Scratch Pad X

Data Output Messages Notifications

	id [PK] integer	first_name character varying (60)	last_name character varying (50)	designation character varying (50)	gender character varying (20)	experience integer	contact_number bigint
1	7451	Joel	Johnson	Radiologist	Male	13	9875412355
2	10667	Valina	Scheffler	Gynecologist	Female	12	9309316936
3	10986	Hirsch	Suckling	Radiologist	Genderfluid	1	7408221376
4	11172	Moselle	Vobes	Orthopedic Surgeon	Female	2	6437349390
5	11506	Ly	MacGuigan	Chief Surgeon	Male	7	8084618743
6	11854	Bruis	Vitali	Chief Surgeon	Male	4	6851570311
7	12107	Tynan	Astiles	Pediatrician	Male	25	8216336447
8	12624	Raimondo	Grocutt	Dermatologist	Male	6	8448093934
9	12635	Holli	McSkeagan	Dermatologist	Female	24	8088618709
10	12996	Keefe	McGlone	Orthopedic Surgeon	Male	5	8639858944
11	13446	Rosy	Rany	Dermatologist	Female	17	8301739477
12	13648	Dylan	Teece	Cardiologist	Male	14	7200152760
13	14289	Liana	Kollasch	Radiologist	Female	2	7363545909
14	14408	Izaak	Tissell	Dermatologist	Male	3	6634964079
15	14646	Josselyn	Kemme	Radiologist	Genderfluid	18	7023366408
16	15141	Jessie	Faulkner	Chief Surgeon	Female	23	7769765293
17	15341	Eric	Kinney	Neurologist	Male	7	6056325973
18	15747	Sam	Grogono	Oncologist	Male	29	7462216516

Total rows: 353 of 353 Query complete 00:00:02.132 Ln 1, Col 1

pgAdmin 4

File Object Tools Help

Object Explorer

- Event triggers
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  - Login/Group Roles

Medicine/H... X Hospital Manage... X public.Patient/Ho... X public.Doctor/Hos... X public.Medicine/Hospital Manager

public.Medicine/Hospital Management System/postgres@Post...

Query Query History

```
1 SELECT * FROM public."Medicine"
2
```

Data Output Messages Notifications

	id integer	name character varying (60)	manufacturer character varying (60)	usage character varying (60)	expiry_date date	unit_price integer
1	1	Imodium	Bristol-Myers Squibb	Arthritis	2027-01-07	119
2	2	Aspirin	GlaxoSmithKline	Insomnia	2026-08-08	12
3	4	Desitin	Sanofi	Allergies	2025-04-07	156
4	5	NyQuil	Allergan	Osteoporosis	2024-06-23	96
5	6	Excedrin	Mylan	Chronic Kidney Disease	2027-05-11	155
6	7	Pepto-Bismol	Gilead Sciences	Asthma	2024-12-22	111
7	8	Gas-X	Novartis	Osteoporosis	2025-07-21	85
8	9	Mucinex	Pfizer	Migraine	2026-08-25	198
9	10	Alka-Seltzer	Roche	Arthritis	2024-04-16	16
10	11	Rolaids	Novartis	Hypertension	2027-06-15	31
11	12	Claritin	Allergan	Stroke	2025-12-12	179
12	13	Alka-Seltzer	GlaxoSmithKline	Anxiety	2026-03-22	99
13	14	Pepto-Bismol	AbbVie	Insomnia	2026-11-09	200
14	15	Prilosec	AbbVie	Gastritis	2027-03-12	130
15	16	Sudafed	Bristol-Myers Squibb	Heart Disease	2025-03-23	83
16	17	Desitin	Allergan	Allergies	2025-09-14	175
17	18	Desitin	AstraZeneca	Osteoporosis	2024-04-07	138
18	19	Zyrtec	Johnson & Johnson	Stroke	2026-03-02	79

Total rows: 334 of 334 Query complete 00:00:00.205

File Object Tools Help

Object Explorer

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- > Extensions
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- > Languages
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public.Patient/Hospital Management System/postgres@Postgr...

Query Query History

```
1 SELECT * FROM public."Patient"
2 ORDER BY id ASC
```

Data Output Messages Notifications

	id [PK] integer	first_name character varying (60)	last_name character varying (50)	disease character varying (50)	gender character varying (20)	contact_number bigint
1	1	Nessa	Eustice	Asthma	Female	8743862008
2	2	Shari	Ginnaly	Diabetes	Female	8931060816
3	3	Annamaria	Priestman	Chronic Kidney Disease	Bigender	9498744883
4	4	Danica	Emmitt	Obesity	Female	8493639312
5	5	Terrel	Larderot	Obesity	Male	9867564532
6	6	Hillier	Probeta	Alzheimer's	Male	7691943989
7	7	Carlynn	Finker	Gastritis	Female	7154599186
8	8	Serene	Billo	Migraine	Female	6691570234
9	9	Catherina	Gobbett	Diabetes	Female	9108687041
10	10	Hestia	Farnworth	Depression	Female	6449277223
11	11	Fields	Jurisch	Hypertension	Male	8788534184
12	12	Beverie	Stivers	Bronchitis	Female	8729109920
13	13	Cherin	Headly	Hypertension	Female	8935898770
14	14	Almeria	Dondon	Alzheimer's	Female	9469470507
15	15	Natividad	Greatakes	Obesity	Non-binary	8431470552
16	16	Larry	Thorbon	Hypertension	Male	9508713158
17	17	Gustav	Siemons	Depression	Male	8860710146
18	18	Cece	Faux	Anxiety	Male	6790997822

Total rows: 350 of 350 Query complete 00:00:01.797

5. Write a select query with and without conditions.

The screenshot shows the pgAdmin 4 interface. On the left, the Object Explorer displays the database structure, with the 'Doctor' table under the 'public' schema selected. The main query editor contains the following SQL query:

```
1 SELECT first_name, last_name
2 FROM public."Doctor";
```

Below the query editor, the 'Data Output' tab shows the results of the query in a table format:

	first_name character varying (60)	last_name character varying (50)
1	Daisy	Oen
2	Hillier	Thomke
3	Torie	Grebert
4	Rose	Whayman
5	Vilma	Canwell
6	Mia	Carless
7	Costa	Gai
8	Elana	Sanderoock
9	Rog	Renlson
10	Linnet	Fleis
11	Abby	Fenimore
12	Ly	MacGuigan
13	Aldo	McTear

At the bottom of the interface, a status bar indicates 'Total rows: 350 of 350' and 'Query complete 00:00:00.167'.

pgAdmin 4

File Object Tools Help

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  - Login/Group Roles

Hospital Management System/postgres@PostgreSQL 16

Query Query History

```
1 SELECT first_name, last_name, designation
2 FROM public."Doctor"
3 WHERE designation = 'Consultant Physician';
```

Data Output Messages Notifications

	first_name character varying (60)	last_name character varying (50)	designation character varying (50)
1	Abby	Fenimore	Consultant Physician
2	Beniamino	Cuttler	Consultant Physician
3	Brittney	Rangall	Consultant Physician
4	Guinevere	Le Brum	Consultant Physician
5	Lacey	Bingley	Consultant Physician
6	Juliana	MacCarrane	Consultant Physician
7	Norbert	Fairney	Consultant Physician
8	Marigold	Kleinsmuntz	Consultant Physician
9	Dody	Jasik	Consultant Physician
10	Lorrie	Beaves	Consultant Physician
11	Rachael	Hinchcliffe	Consultant Physician
12	Carita	Decaze	Consultant Physician
13	Donal	Itzkowicz	Consultant Physician
14	Carmita	Spirit	Consultant Physician
15	Belita	Matyushonok	Consultant Physician
16	Marela	Raidman	Consultant Physician

Total rows: 36 of 36 Query complete 00:00:00.172

6. Write an insert query to add new data for all the tables.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the 'Object Explorer' with the 'public' schema selected, and the 'Tables (3)' folder expanded, showing the 'Doctor' table. The main pane shows a query window with the following SQL:

```
1 SELECT * FROM public."Doctor"
2 ORDER BY id ASC
```

The 'Data Output' tab is active, displaying the results of the query in a table format. The table has 8 columns: id, first\_name, last\_name, designation, gender, experience, and contact\_number. The results show 15 rows of data.

id	first_name	last_name	designation	gender	experience	contact_number
1	Joel	Johnson	Radiologist	Male	13	9875412355
2	Valina	Scheffler	Gynecologist	Female	12	9309316936
3	Hirsch	Suckling	Radiologist	Genderfluid	1	7408221376
4	Moselle	Vobes	Orthopedic Surgeon	Female	2	6437349390
5	Ly	MacGulgan	Chief Surgeon	Male	7	8084618743
6	Bruis	Vital	Chief Surgeon	Male	4	6851570311
7	Tynan	Astles	Pediatrician	Male	25	8216336447
8	Raimondo	Grocutt	Dermatologist	Male	6	8448093934
9	Holli	McSkeagan	Dermatologist	Female	24	8088618709
10	Keefe	McGlone	Orthopedic Surgeon	Male	5	8639858944
11	Rosy	Rany	Dermatologist	Female	17	8301739477
12	Dylan	Teece	Cardiologist	Male	14	7200152760
13	Liana	Kollasch	Radiologist	Female	2	7363545909
14	Izaak	Tissell	Dermatologist	Male	3	6634964079
15	Josselyn	Kemme	Radiologist	Genderfluid	18	7023366408

The status bar at the bottom indicates 'Total rows: 352 of 352' and 'Query complete 00:00:00.240'.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the 'Object Explorer' with the 'public' schema selected, and the 'Tables (3)' folder expanded, showing the 'Doctor' table. The main pane shows a query window with the following SQL:

```
1 INSERT INTO public."Doctor" (
2   id, first_name, last_name, designation, gender, experience, contact_number)
3   VALUES ('24513', 'Meekhal', 'James', 'Gynecologist', 'Female', '32', '7542154823');
```

The 'Data Output' tab is active, but it is currently empty.

pgAdmin 4

File Object Tools Help

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  - postgres
  - Login/Group Roles

al Manage... x Hospital Manage... x public.Doctor/Hos... x Hospital Manage... x public.Doctor/Hospital Management System/postgr...

public.Doctor/Hospital Management System/postgres@Postgre...

Query Query History Scratch Pad x

```

1 SELECT * FROM public."Doctor"
2 ORDER BY id ASC

```

Data Output Messages Notifications

	id [PK] integer	first_name character varying (60)	last_name character varying (50)	designation character varying (50)	gender character varying (20)	experience integer	contact_number bigint
59	24448	Roley	Sarfati	Consultant Physician	Male	28	6888766410
60	24513	Meekhal	James	Gynecologist	Female	32	7542154823
61	24610	Drona	Ferruzzi	Pediatrician	Female	19	7937990941
62	25124	Lewes	Ketcher	Pediatrician	Male	7	6656947206
63	26305	Hugues	Pulver	Chief Surgeon	Male	22	9715234818
64	27438	Penni	Hastings	Chief Surgeon	Female	30	8967333559
65	27893	Mirna	Kaymons	Cardiologist	Female	25	8240418154
66	27960	Tildie	Duns	Cardiologist	Female	17	7948517047
67	28181	Nathanil	Grewar	Pediatrician	Male	28	7498398174
68	28213	Colby	Hungerford	Radiologist	Male	12	8116710142
69	28387	Christophe	McErlaine	Orthopedic Surgeon	Bigender	8	6898844982
70	29253	Dill	Vitte	Dermatologist	Male	29	8637918810
71	29415	Wheeler	Steeden	Neurologist	Male	17	8801582283
72	30232	Ashleigh	Parlet	Consultant Physician	Polygender	26	6285023462
73	30343	Sawyer	Baynes	Pediatrician	Male	3	8640181661

Total rows: 353 of 353 Query complete 00:00:00.584

## 7. Write a Delete query to delete any existing data for all the table

pgAdmin 4

File Object Tools Help

Object Explorer

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Hospital Manage... x public.Doctor/Hos... x Hospital Manage... x public.Doctor/Hos... x

Hospital Management System/postgres@PostgreSQL 16

Query Query History

```

1 DELETE FROM public."Medicine"
2 WHERE usage = 'Depression';

```

Data Output Messages Notifications



pgAdmin 4

File Object Tools Help

Object Explorer

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Hospital Management System/postgres@PostgreSQL 16

Query Query History

```
1 DELETE FROM public."Medicine"
2 WHERE usage = 'Depression';
```

Data Output Messages Notifications

DELETE 16

Query returned successfully in 226 msec.

pgAdmin 4

File Object Tools Help

Object Explorer

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  - Login/Group Roles

public.Medicine/Hospital Management System/postgres@Post...

Query Query History

```
1 SELECT * FROM public."Medicine"
2
```

Data Output Messages Notifications

	id	name	manufacturer	usage	expiry_date	unit_price
	Integer	character varying (60)	character varying (60)	character varying (60)	date	integer
1	1	Imodium	Bristol-Myers Squibb	Arthritis	2027-01-07	119
2	2	Aspirin	GlaxoSmithKline	Insomnia	2026-08-08	12
3	4	Desitin	Sanofi	Allergies	2025-04-07	156
4	5	NyQuil	Allergan	Osteoporosis	2024-06-23	96
5	6	Excedrin	Mylan	Chronic Kidney Disease	2027-05-11	155
6	7	Pepto-Bismol	Gilead Sciences	Asthma	2024-12-22	111
7	8	Gas-X	Novartis	Osteoporosis	2025-07-21	85
8	9	Mucinex	Pfizer	Migraine	2026-08-25	198
9	10	Alka-Seltzer	Roche	Arthritis	2024-04-16	16
10	11	Rolaids	Novartis	Hypertension	2027-06-15	31
11	12	Claritin	Allergan	Stroke	2025-12-12	179
12	13	Alka-Seltzer	GlaxoSmithKline	Anxiety	2026-03-22	99
13	14	Pepto-Bismol	AbbVie	Insomnia	2026-11-09	200
14	15	Prilosec	AbbVie	Gastritis	2027-03-12	130
15	16	Sudafed	Bristol-Myers Squibb	Heart Disease	2025-03-23	83
16	17	Desitin	Allergan	Allergies	2025-09-14	175

Total rows: 334 of 334 Query complete 00:00:00.550



## 8. Write an Update query to update any existing data for all the tables.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, with the 'Patient' table selected under the 'public' schema. The main query editor contains the following SQL statement:

```
1 .."Patient"
2 .t_name='Terrel', last_name='Larderot', disease='Obesity', gender='Male', contact_number='9867564532'
3 = '5';
```

The 'Data Output' tab is active, but it displays a message: "No data output. Execute a query to get output."

The screenshot shows the pgAdmin 4 interface with the same database structure. The main query editor contains the following SQL statement:

```
1 SELECT * FROM public."Patient"
2 ORDER BY id ASC
```

The 'Data Output' tab is active, displaying the results of the query. The results are shown in a table with the following columns: id, first\_name, last\_name, disease, gender, and contact\_number. The table contains 16 rows of data.

id	first_name	last_name	disease	gender	contact_number
1	Nessa	Eustice	Asthma	Female	8743862008
2	Shari	Ginnaly	Diabetes	Female	8931060816
3	Annamaria	Priestman	Chronic Kidney Disease	Bigender	9498744883
4	Danica	Emmitt	Obesity	Female	8493639312
5	Terrel	Larderot	Obesity	Male	9867564532
6	Hillier	Proberts	Alzheimer's	Male	7691943989
7	Carlynn	Finker	Gastritis	Female	7154599186
8	Serene	Billo	Migraine	Female	6691570234
9	Catherina	Gobbett	Diabetes	Female	9108687041
10	Hestia	Farnworth	Depression	Female	6449277223
11	Fields	Jurisch	Hypertension	Male	8788534184
12	Beverie	Stivers	Bronchitis	Female	8729109920
13	Cherin	Headly	Hypertension	Female	8935898770
14	Almeria	Dondon	Alzheimer's	Female	9469470507
15	Natividad	Greatrakes	Obesity	Non-binary	8431470552
16	Larry	Thornton	Hypertension	Male	9608713158

Total rows: 350 of 350 Query complete 00:00:00.495