

# Database Term Project



## SUBMITTED BY

- RUKHSAN AHMED (035)
- TAIBA SAJJAD (009)
- EMAN ASHARF (022)
- EMAN KHALID (028)

## SUBMITTED TO

**SIR FRAZ GORSI**

## ABSTRACT

An Online Med Tender Management System in hospitals help to manage the process of buying medical supplies for patients with ease and transparently. It makes everything digital, from announcing needs to evaluating offers and contract bidding. This system makes the process faster, clearer, and fairer for everyone involved.

# Database Term Project

## Table of Contents

Brief Introduction About The Project .....	3
Aims And Objective.....	3
Database Entities .....	3
Project Database Design .....	4
Relational Schema.....	5
Er Diagram.....	6
Relational Model.....	7
The query for Creating Database .....	8
Queries for creating tables .....	8
Inserting values in table .....	9
Queries to display tables after inserting values in it.....	11
Keys and constraints of table.....	15
Basic queries .....	17

## Database Term Project

### Brief Introduction About The Project

It is a software or digital platform designed to handle the process of inviting, evaluating, and managing bids or proposals in the medical or healthcare sector. This system helps organizations in the healthcare industry to efficiently manage the procurement of goods and services.

Key features of such a system may include **organizing documents related to tenders, evaluating bids, managing relationships** with vendors, and ensuring compliance with relevant regulations.

### Aims And Objective

The Medical Tender Management System helps healthcare providers manage purchases better by handling tender processes digitally. Goals include making procurement smoother, evaluating bids transparently, managing vendors, organizing documents, saving costs, improving decision-making, communicating better, managing risks, and always striving to get better.

It keeps track of tender invitations, bid submissions, vendor details, procurement documents, regulatory reports, communication logs, decision-making, risk assessments, and improvement efforts.

### Database Entities

---

MEDICAL SUPERVISOR

---

PHARMACY

---

DOCTOR

---

COMPANY

---

PRODUCT SPECIALIST

---

SUPPLIER

---

MEDICINE

---

BIDDING

---

POST

---

# Database Term Project

CONTAINS

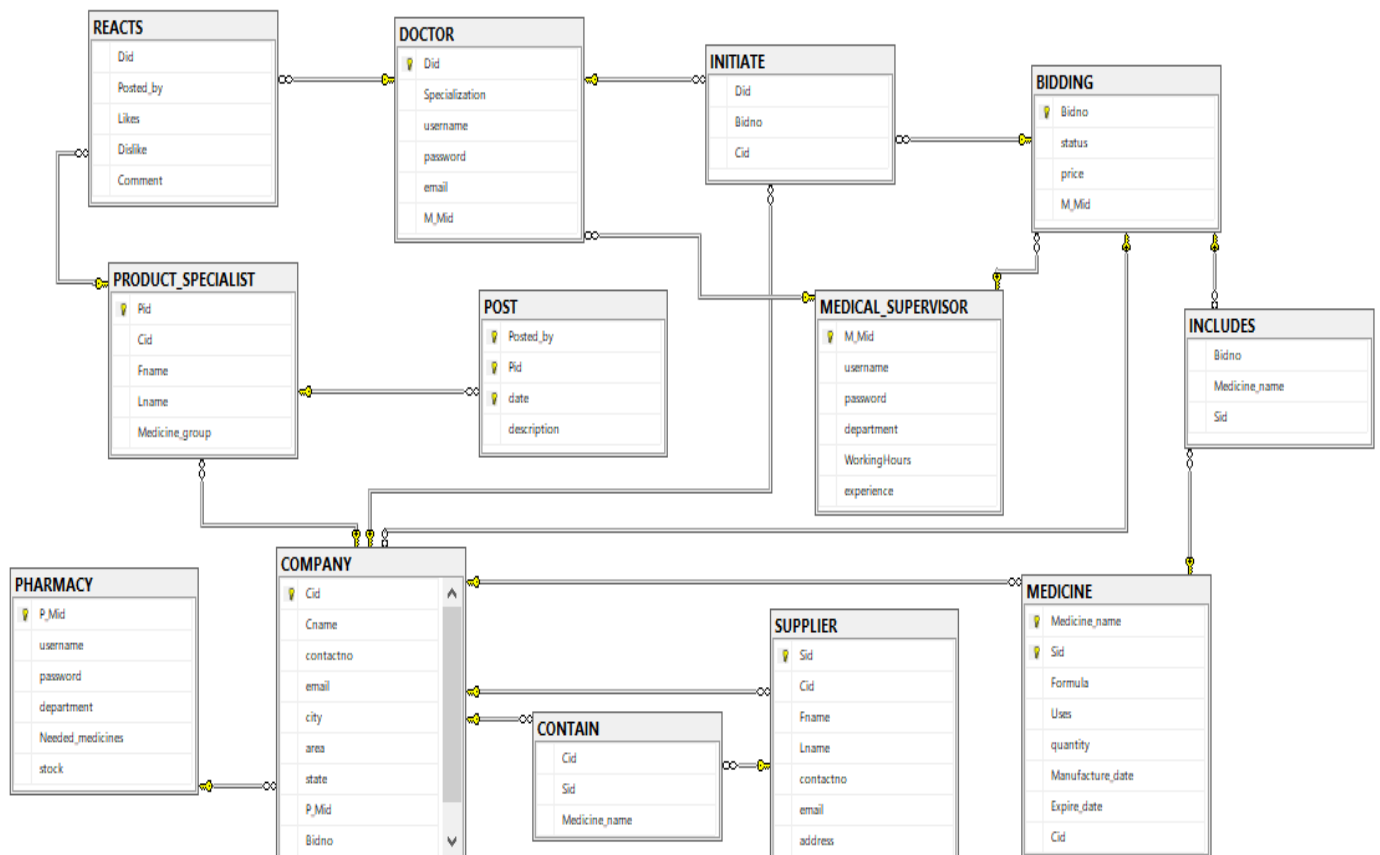
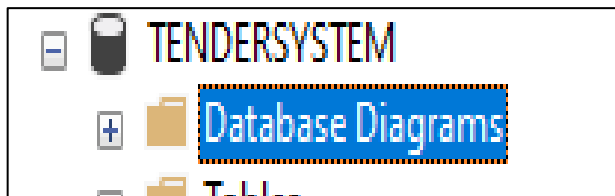
INCLUDES

REACTS

INITIATES



## Project Database Design



## Database Term Project

### Relational Schema

**MEDICAL\_SUPERVISOR** (M\_Mid ,username, password, department, WorkingHours, experience)

**PHARMACY** (P\_Mid, username, password, department, Needed\_medicines, stock)

**DOCTOR** (Did, Specialization, username, password, email, M\_Mid)

**COMPANY** (Cid, Cname, contactno, email, city,area, state, P\_Mid, Bidno)

**PRODUCT\_SPECIALIST** (Pid, Cid, Fname, Lname, Medicine\_group)

**SUPPLIER** (Sid, Cid, Fname, Lname, contactno ,email, address)

**MEDICINE** (Medicine\_name , Sid, Formula, Uses, quantity ,Manufacture\_date, Expire\_date, Cid )

**BIDDING** (Bidno , status, Price, M\_Mid)

**POST** (Posted\_by, Pid, date, description)

**CONTAIN** (Cid, Sid, Medicine\_name)

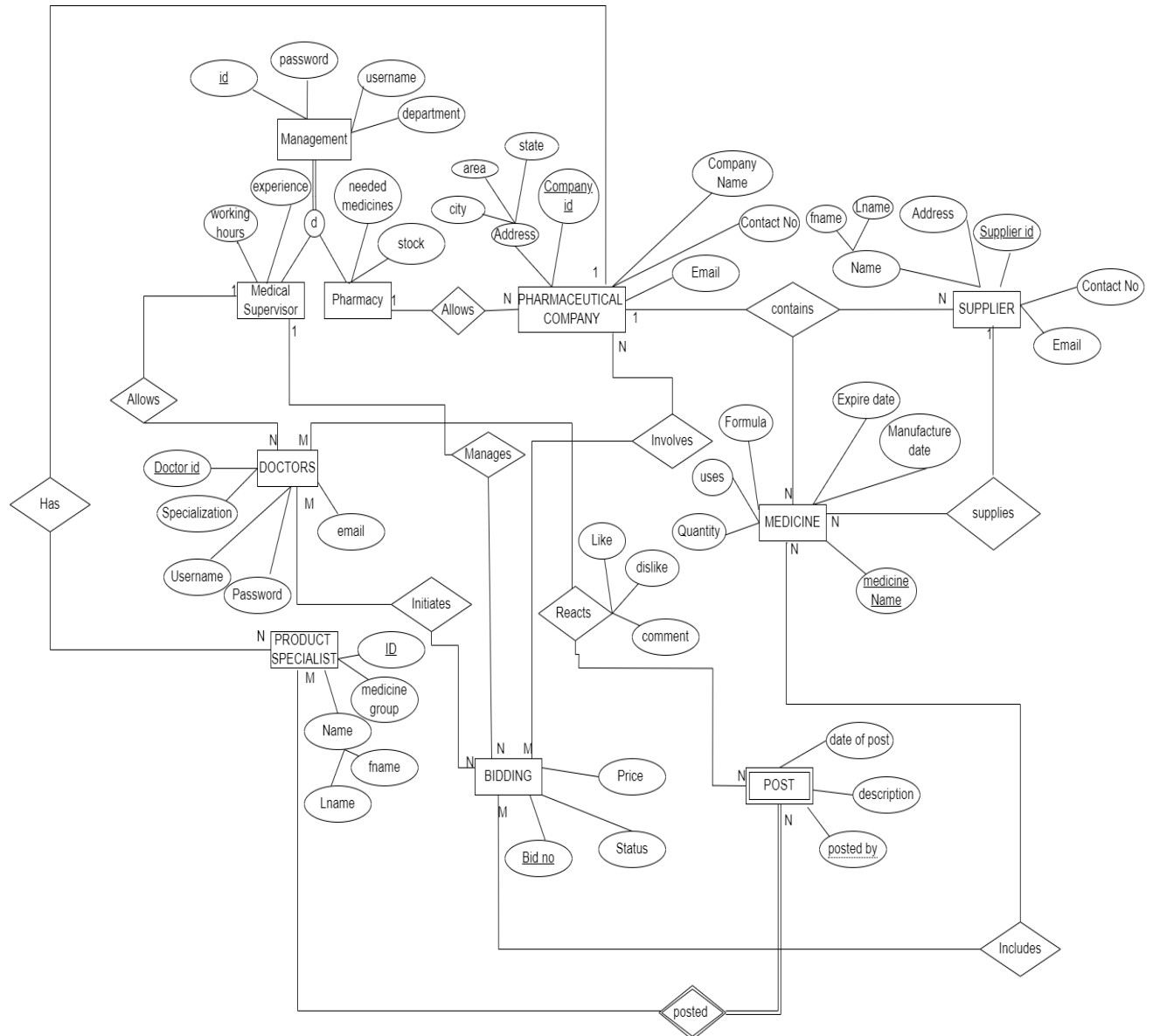
**INCLUDES** (Bidno, Medicine\_name)

**REACTS** (Did, Posted\_by , likes , dislike, comment)

**INITIATE** (Did , Bid\_no , Cid)

# Database Term Project

## Er Diagram



# Database Term Project

## Relational Model

### MEDICAL SUPERVISOR

<u>M_Mid</u>	username	password	department	Working hours	experience
--------------	----------	----------	------------	---------------	------------

### PHARMACY

<u>P_Mid</u>	username	password	department	Needed medicines	stock
--------------	----------	----------	------------	------------------	-------

### DOCTOR

<u>Did</u>	Specialization	username	password	email	<u>M_Mid</u>
------------	----------------	----------	----------	-------	--------------

### COMPANY

<u>Cid</u>	Cname	contactno	email	city	area	state	<u>P_Mid</u>	<u>Bidno</u>
------------	-------	-----------	-------	------	------	-------	--------------	--------------

### PRODUCT SPECIALIST

<u>Pid</u>	<u>Cid</u>	Fname	Lname	Medicine group
------------	------------	-------	-------	----------------

### SUPPLIER

<u>Sid</u>	<u>Cid</u>	Fname	Lname	contactno	email	address
------------	------------	-------	-------	-----------	-------	---------

### MEDICINE

<u>Medicine name</u>	<u>Sid</u>	Formula	Uses	quantity	Manufacture date	Expire date	<u>Cid</u>
----------------------	------------	---------	------	----------	------------------	-------------	------------

### BIDDING

<u>Bidno</u>	status	price	<u>M_Mid</u>
--------------	--------	-------	--------------

### POST

<u>Posted by</u>	<u>Pid</u>	date	description
------------------	------------	------	-------------

### CONTAINS

<u>Cid</u>	<u>Sid</u>	<u>Medicine name</u>
------------	------------	----------------------

### INCLUDES

<u>Bidno</u>	<u>Medicine name</u>
--------------	----------------------

### REACTS

<u>Did</u>	<u>Posted by</u>	like	dislike	comment
------------	------------------	------	---------	---------

### INITIATE

<u>Did</u>	<u>Bidno</u>	<u>Cid</u>
------------	--------------	------------

# Database Term Project

## Database creation on SQL

### The query for Creating Database

```
CREATE DATABASE TENDERSYSTEM;
```

### Queries for creating tables

```
CREATE TABLE MEDICAL_SUPERVISOR (  
    M_Mid INT PRIMARY KEY,  
    username VARCHAR(50) NOT NULL UNIQUE,  
    password VARCHAR(50) NOT NULL,  
    department VARCHAR(100),  
    WorkingHours VARCHAR(50),  
    experience INT );
```

```
CREATE TABLE PHARMACY (  
    P_Mid INT PRIMARY KEY,  
    username VARCHAR(50) NOT NULL UNIQUE,  
    password VARCHAR(50) NOT NULL,  
    department VARCHAR(100),  
    Needed_medicines TEXT,  
    stock INT );
```

```
CREATE TABLE DOCTOR (  
    Did INT PRIMARY KEY,  
    Specialization VARCHAR(100),  
    username VARCHAR(50) NOT NULL UNIQUE,  
    password VARCHAR(50) NOT NULL,  
    email VARCHAR(100) NOT NULL,  
    M_Mid INT FOREIGN KEY REFERENCES  
    MEDICAL_SUPERVISOR(M_Mid) );
```

```
CREATE TABLE BIDDING (  
    Bidno INT PRIMARY KEY,  
    status VARCHAR(50),  
    price DECIMAL(10, 2),  
    M_Mid INT FOREIGN KEY REFERENCES  
    MEDICAL_SUPERVISOR(M_Mid) );
```

```
CREATE TABLE COMPANY (  
    Cid INT PRIMARY KEY,  
    Cname VARCHAR(100),  
    contactno VARCHAR(15),  
    email VARCHAR(100),  
    city VARCHAR(50),
```

```
    area VARCHAR(50),  
    state VARCHAR(50),  
    P_Mid INT FOREIGN KEY REFERENCES  
    PHARMACY(P_Mid),  
    Bidno INT FOREIGN KEY REFERENCES  
    BIDDING(Bidno));
```

```
CREATE TABLE PRODUCT_SPECIALIST (  
    Pid INT PRIMARY KEY,  
    Fname VARCHAR(50),  
    Lname VARCHAR(50),  
    Medicine_group VARCHAR(100),  
    Cid INT FOREIGN KEY REFERENCES  
    COMPANY(Cid) );
```

```
CREATE TABLE SUPPLIER (  
    Sid INT PRIMARY KEY,  
    Fname VARCHAR(50),  
    Lname VARCHAR(50),  
    contactno VARCHAR(15),  
    email VARCHAR(100),  
    address VARCHAR(200),  
    Cid INT FOREIGN KEY REFERENCES  
    COMPANY(Cid) );
```

```
CREATE TABLE MEDICINE (  
    Medicine_name VARCHAR(100) PRIMARY  
    KEY,  
    Formula VARCHAR(100),  
    Uses TEXT,  
    quantity INT,  
    Manufacture_date DATE,  
    Expire_date DATE,  
    Cid INT FOREIGN KEY REFERENCES  
    COMPANY(Cid),  
    Sid INT FOREIGN KEY REFERENCES  
    SUPPLIER (Sid) );
```

```
CREATE TABLE POST (  
    Posted_by INT PRIMARY KEY,  
    date DATE UNIQUE,  
    description TEXT,  
    Pid INT FOREIGN KEY REFERENCES  
    PRODUCT_SPECIALIST(Pid) );
```

```
CREATE TABLE CONTAIN (  
    Cid INT FOREIGN KEY REFERENCES  
    COMPANY(Cid),  
    Sid INT FOREIGN KEY (Sid) REFERENCES  
    SUPPLIER(Sid),  
    Medicine_name VARCHAR(100) FOREIGN  
    KEY REFERENCES MEDICINE(Medicine_name));
```



# Database Term Project

```
CREATE TABLE INCLUDES (
    Bidno INT FOREIGN KEY REFERENCES
BIDDING(Bidno),
    Medicine_name VARCHAR(100) FOREIGN
KEY REFERENCES MEDICINE(Medicine_name) );
DROP TABLE INCLUDES;
CREATE TABLE REACTS (
    Likes INT NOT NULL ,
    Dislike INT NOT NULL ,
    CONSTRAINT CHK_Reacts_Like_Dislike
CHECK (
    (Likes = 1 AND Dislike = 0) OR
    (Likes = 0 AND Dislike = 1)),
    Comment TEXT,
    Did INT FOREIGN KEY REFERENCES
DOCTOR(Did),
    Posted_by INT FOREIGN KEY REFERENCES
POST(Posted_by));

CREATE TABLE INITIATE (
    Did INT FOREIGN KEY REFERENCES
DOCTOR(Did),
    Bid_no INT FOREIGN KEY REFERENCES
BIDDING(Bidno),
    Cid INT FOREIGN KEY REFERENCES
COMPANY(Cid));
```

## Inserting values in table

```
INSERT INTO MEDICAL_SUPERVISOR
VALUES
(1, 'DrJohnDoe', 'pass123', 'Cardiology',
'9am-5pm', 10),
(2, 'DrJaneSmith', 'securepwd',
'Orthopedics', '8am-4pm', 8),
(3, 'DrMichaelJohnson', 'medic987',
'Neurology', '10am-6pm', 15);
INSERT INTO PHARMACY
VALUES
(1, 'PharmaX', 'pharmapass',
'Cardiology', 'Aspirin, Beta Blockers',
500),
(2, 'OrthoMeds', 'ortho123',
'Orthopedics', 'Painkillers, Anti-
inflammatory', 300),
(3, 'NeuroPharma', 'neuromeds',
'Neurology', 'Antidepressants,
Antipsychotics', 400),
(4, 'PediatricPlus', 'kidscare',
'Pediatrics', 'Vaccines, Antibiotics',
200);
INSERT INTO DOCTOR
VALUES
```

```
(1, 'Cardiologist', 'DrJohnSmith',
'cardio123', 'john.smith@example.com',
1),
(2, 'Orthopedist', 'DrEmilyJones',
'ortho456', 'emily.jones@example.com',
2),
(3, 'Neurologist', 'DrMichaelBrown',
'neuro789', 'michael.brown@example.com',
3),
(4, 'Pediatrician', 'DrSarahMiller',
'pedscare', 'sarah.miller@example.com',
1),
(5, 'Radiologist', 'DrDavidWilson',
'radexpert', 'david.wilson@example.com',
1),
(6, 'Oncologist', 'DrJenniferLee',
'onco123', 'jennifer.lee@example.com',
2),
(7, 'Surgeon', 'DrMarkTaylor', 'surg456',
'mark.taylor@example.com', 3),
(8, 'Psychiatrist', 'DrAmandaClark',
'psych789', 'amanda.clark@example.com',
1),
(9, 'Dermatologist', 'DrRobertMartinez',
'dermcare',
'robert.martinez@example.com', 2);
```

```
INSERT INTO BIDDING
VALUES
```

```
(1, 'Open', 1000.00, 1),
(2, 'Closed', 1500.50, 2),
(3, 'Pending', 2000.75, 3);
```

```
INSERT INTO COMPANY
VALUES
```

```
(1, 'HealthMeds', '1234567890',
'contact@healthmeds.com', 'New York',
'Manhattan', 'NY', 1, 1),
(2, 'OrthoSupplies', '2345678901',
'info@orthosupplies.com', 'Los Angeles',
'Beverly Hills', 'CA', 2, 2),
(3, 'NeuroPharm', '3456789012',
'support@neuropharm.com', 'Chicago',
'Downtown', 'IL', 3, 3),
(4, 'PediatricPlus', '4567890123',
'info@pediatricplus.com', 'Houston',
'Downtown', 'TX', 4, 2);
```

```
INSERT INTO PRODUCT_SPECIALIST
VALUES
```

```
(1, 'George', 'White', 'Cardiology', 1),
(2, 'Nina', 'Black', 'Orthopedics', 2),
(3, 'David', 'Green', 'Neurology', 3),
(4, 'Emma', 'Brown', 'Pediatrics', 4),
(5, 'Daniel', 'Taylor', 'Cardiology', 1);
```

```
INSERT INTO SUPPLIER
VALUES
```

# Database Term Project

```
(1, 'William', 'Johnson', '7890123456',  
'william.johnson@supplier.com', '123 Main  
St, New York, NY', 1),  
(2, 'Sophia', 'Davis', '8901234567',  
'sophia.davis@supplier.com', '456 Elm St,  
Los Angeles, CA', 2),  
(3, 'Daniel', 'Taylor', '9012345678',  
'daniel.taylor@supplier.com', '789 Oak  
St, Chicago, IL', 3);
```

```
INSERT INTO MEDICINE  
VALUES
```

```
('Aspirin', 'C9H8O4', 'Pain relief, Anti-  
inflammatory', 200, '2023-01-15', '2024-  
01-15', 1, 1),  
( 'Ibuprofen', 'C13H18O2', 'Pain relief,  
Anti-inflammatory', 300, '2023-02-20',  
'2024-02-20', 2, 2),  
( 'Lorazepam', 'C15H10Cl2N2O2', 'Anxiety  
disorders, Insomnia', 150, '2023-03-25',  
'2024-03-25', 3, 3),  
( 'Amoxicillin', 'C16H19N3O5S', 'Bacterial  
infections', 100, '2023-04-30', '2024-04-  
30', 4, 4),  
( 'Paracetamol', 'C8H9NO2', 'Pain relief,  
Fever reduction', 250, '2023-05-05',  
'2024-05-05', 1, 1),  
( 'Lisinopril', 'C21H31N3O5',  
'Hypertension, Heart failure', 150,  
'2023-06-10', '2024-06-10', 2, 1),  
( 'Levofloxacin', 'C18H20FN3O4',  
'Bacterial infections', 200, '2023-07-  
15', '2024-07-15', 3, 2),  
( 'Simvastatin', 'C25H38O5', 'High  
cholesterol, Heart disease', 180, '2023-  
08-20', '2024-08-20', 4, 3),  
( 'Hydrochlorothiazide', 'C7H8ClN3O4S2',  
'Hypertension, Edema', 120, '2023-09-25',  
'2024-09-25', 1, 3),  
( 'Omeprazole', 'C17H19N3O3S',  
'Gastroesophageal reflux disease', 220,  
'2023-10-30', '2024-10-30', 2, 4),  
( 'Metformin', 'C4H11N5', 'Type 2  
diabetes', 180, '2023-11-05', '2024-11-  
05', 3, 3);
```

```
INSERT INTO POST (Posted_by, date,  
description, Pid)
```

```
VALUES
```

```
(1, '2023-01-10', 'Discussion about new  
cardiac treatments', 1),  
(2, '2023-02-15', 'Orthopedic case  
studies review', 2),  
(3, '2023-03-20', 'Neurology conference  
highlights', 3),  
(4, '2023-04-25', 'Pediatrics vaccination  
drive announcement', 4),  
(5, '2023-05-30', 'Radiology imaging  
technology advancements', 5);
```

```
INSERT INTO CONTAIN  
VALUES
```

```
(1, 1, 'Aspirin'),  
(2, 2, 'Ibuprofen'),  
(3, 3, 'Lorazepam'),  
(4, 4, 'Amoxicillin'),  
(1, 1, 'Paracetamol'),  
(2, 2, 'Lisinopril');
```

```
INSERT INTO INCLUDES  
VALUES
```

```
(1, 'Aspirin'),  
(2, 'Ibuprofen'),  
(3, 'Lorazepam'),  
(1, 'Amoxicillin'),  
(2, 'Paracetamol'),  
(3, 'Lisinopril');
```

```
INSERT INTO REACTS  
VALUES
```

```
(1, 0, 'Great post, very informative!',  
5, 1),  
(0, 1, 'Interesting discussion, but I  
have some doubts.', 2, 4),  
(1, 0, 'Excellent presentation, looking  
forward to more.', 3, 3),  
(0, 1, 'Mixed feelings about this  
topic.', 4, 2);
```

```
INSERT INTO INITIATE  
VALUES
```

```
(1, 1, 3),  
(2, 2, 1),  
(3, 2, 2);
```

## Database Term Project

### Queries to display tables after inserting values in it

```
SELECT * FROM MEDICAL_SUPERVISOR;
```

119 %

Results Messages

	M_Mid	username	password	department	WorkingHours	experience
1	1	DrJohnDoe	pass123	Cardiology	9am-5pm	10
2	2	DrJaneSmith	securepwd	Orthopedics	8am-4pm	8
3	3	DrMichaelJohnson	medic987	Neurology	10am-6pm	15

```
SELECT * FROM PHARMACY;
```

119 %

Results Messages

	P_Mid	username	password	department	Needed_medicines	stock
1	1	PhamaX	phamapass	Cardiology	Aspirin, Beta Blockers	500
2	2	OrthoMeds	ortho123	Orthopedics	Painkillers, Anti-inflammatory	300
3	3	NeuroPharma	neuromeds	Neurology	Antidepressants, Antipsychotics	400
4	4	PediatricPlus	kidscare	Pediatrics	Vaccines, Antibiotics	200

```
SELECT * FROM DOCTOR;
```

119 %

Results Messages

	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1
2	2	Orthopedist	DrEmilyJones	ortho456	emily.jones@example.com	2
3	3	Neurologist	DrMichaelBrown	neuro789	michael.brown@example.com	3
4	4	Pediatrician	DrSarahMiller	pedscare	sarah.miller@example.com	1
5	5	Radiologist	DrDavidWilson	radexpert	david.wilson@example.com	1
6	6	Oncologist	DrJenniferLee	onco123	jennifer.lee@example.com	2
7	7	Surgeon	DrMarkTaylor	surg456	mark.taylor@example.com	3
8	8	Psychiatrist	DrAmandaClark	psych789	amanda.clark@example.com	1
9	9	Dermatologist	DrRobertMartinez	demcare	robert.martinez@example.com	2

# Database Term Project

```
SELECT * FROM BIDDING;
```

119 %

Results Messages

	Bidno	status	price	M_Mid
1	1	Open	1000.00	1
2	2	Closed	1500.50	2
3	3	Pending	2000.75	3

```
SELECT * FROM COMPANY;
```

119 %

Results Messages

	Cid	Cname	contactno	email	city	area	state	P_Mid	Bidno
1	1	HealthMeds	1234567890	contact@healthmeds.com	New York	Manhattan	NY	1	1
2	2	OrthoSupplies	2345678901	info@orthosupplies.com	Los Angeles	Beverly Hills	CA	2	2
3	3	NeuroPham	3456789012	support@neuropham.com	Chicago	Downtown	IL	3	3
4	4	PediatricPlus	4567890123	info@pediatricplus.com	Houston	Downtown	TX	4	2

```
SELECT * FROM PRODUCT_SPECIALIST;
```

119 %

Results Messages

	Pid	Fname	Lname	Medicine_group	Cid
1	1	George	White	Cardiology	1
2	2	Nina	Black	Orthopedics	2
3	3	David	Green	Neurology	3
4	4	Emma	Brown	Pediatrics	4
5	5	Daniel	Taylor	Cardiology	1

# Database Term Project

```
SELECT * FROM SUPPLIER;
```

119 %							
Results Messages							
	Sid	Fname	Lname	contactno	email	address	Cid
1	1	William	Johnson	7890123456	william.johnson@supplier.com	123 Main St, New York, NY	1
2	2	Sophia	Davis	8901234567	sophia.davis@supplier.com	456 Elm St, Los Angeles, CA	2
3	3	Daniel	Taylor	9012345678	daniel.taylor@supplier.com	789 Oak St, Chicago, IL	3

```
SELECT * FROM MEDICINE;
```

119 %								
Results Messages								
	Medicine_name	Formula	Uses	quantity	Manufacture_date	Expire_date	Cid	Sid
1	Amoxicillin	C16H19N3O5S	Bacterial infections	100	2023-04-30	2024-04-30	4	2
2	Aspirin	C9H8O4	Pain relief, Anti-inflammatory	200	2023-01-15	2024-01-15	1	1
3	Hydrochlorothiazide	C7H8ClN3O4S2	Hypertension, Edema	120	2023-09-25	2024-09-25	1	3
4	Ibuprofen	C13H18O2	Pain relief, Anti-inflammatory	300	2023-02-20	2024-02-20	2	2
5	Levofloxacin	C18H20FN3O4	Bacterial infections	200	2023-07-15	2024-07-15	3	2
6	Lisinopril	C21H31N3O5	Hypertension, Heart failure	150	2023-06-10	2024-06-10	2	1
7	Lorazepam	C15H10Cl2N2O2	Anxiety disorders, Insomnia	150	2023-03-25	2024-03-25	3	3
8	Metformin	C4H11N5	Type 2 diabetes	180	2023-11-05	2024-11-05	3	3
9	Omeprazole	C17H19N3O3S	Gastroesophageal reflux disease	220	2023-10-30	2024-10-30	2	1
10	Paracetamol	C8H9NO2	Pain relief, Fever reduction	250	2023-05-05	2024-05-05	1	1
11	Simvastatin	C25H38O5	High cholesterol, Heart disease	180	2023-08-20	2024-08-20	4	3

```
SELECT * FROM POST;
```

119 %				
Results Messages				
	Posted_by	date	description	Pid
1	1	2023-01-10	Discussion about new cardiac treatments	1
2	2	2023-02-15	Orthopedic case studies review	2
3	3	2023-03-20	Neurology conference highlights	3
4	4	2023-04-25	Pediatrics vaccination drive announcement	4
5	5	2023-05-30	Radiology imaging technology advancements	5

# Database Term Project

```
SELECT * FROM CONTAIN;
```

119 %

	Cid	Sid	Medicine_name
1	1	1	Aspirin
2	2	2	Ibuprofen
3	3	3	Lorazepam
4	4	2	Amoxicillin
5	1	1	Paracetamol
6	2	2	Lisinopril

```
SELECT * FROM INCLUDES;
```

119 %

	Bidno	Medicine_name
1	1	Aspirin
2	2	Ibuprofen
3	3	Lorazepam
4	1	Amoxicillin
5	2	Paracetamol
6	3	Lisinopril

```
SELECT * FROM REACTS;
```

119 %

	Likes	Dislike	Comment	Did	Posted_by
1	1	0	Great post, very informative!	5	1
2	0	1	Interesting discussion, but I have some doubts.	2	4
3	1	0	Excellent presentation, looking forward to more.	3	3
4	0	1	Mixed feelings about this topic.	4	2











































```
SELECT * FROM INITIATE;
```

119 %

	Did	Bid_no	Cid
1	1	1	3
2	2	2	1
3	3	2	2

# Database Term Project

## Keys and constraints of table

<div><div>[-]  <b>dbo.BIDDING</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>PK_BIDDING_4A719C503B8A8B0A</div><div>FK_BIDDING_M_Mid_58D1301D</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>	<div><div>[-]  <b>dbo.COMPANY</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>PK_COMPANY_C1FFD861A9AE25E6</div><div>FK_COMPANY_Bidno_5CA1C101</div><div>FK_COMPANY_P_Mid_5BAD9CC8</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>
<div><div>[-]  <b>dbo.CONTAIN</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>FK_CONTAIN_Cid_1209AD79</div><div>FK_CONTAIN_Medicin_13F1F5EB</div><div>FK_CONTAIN_Sid_12FDD1B2</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>	<div><div>[-]  <b>dbo.DOCTOR</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>PK_DOCTOR_C031221821E1AB7D</div><div>FK_DOCTOR_M_Mid_55F4C372</div><div>UQ_DOCTOR_F3DBC5728541ED09</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>
<div><div>[-]  <b>dbo.INITIAE</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>FK_INITIAE_Bid_no_1D7B6025</div><div>FK_INITIAE_Cid_1E6F845E</div><div>FK_INITIAE_Did_1C873BEC</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>	<div><div>[-]  <b>dbo.PRODUCT_SPECIALIST</b></div><div><div>[+]  Columns</div><div><div>[-]  Keys</div><div><div>PK_PRODUCT__C5705938367D9A37</div><div>FK_PRODUCT_SPE_Cid_5F7E2DAC</div></div><div> Constraints</div><div><div>[+]  Triggers</div><div><div>[+]  Indexes</div><div><div>[+]  Statistics</div></div></div></div></div></div></div>

# Database Term Project

<div><div>[-] [Table Icon] <b>dbo.MEDICAL_SUPERVISOR</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>PK_MEDICAL__B2C63F971BA5074F</div><div>UQ_MEDICAL__F3DBC572D7FD7F89</div></div></div><div>[+] [Folder Icon] Constraints</div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>	<div><div>[-] [Table Icon] <b>dbo.REACTS</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>FK_REACTS_Did_19AACF41</div><div>FK_REACTS_Posted_b_1A9EF37A</div></div></div><div><div>[-] [Folder Icon] Constraints</div><div>CHK_Reacts_Like_Dislike</div></div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>
<div><div>[-] [Table Icon] <b>dbo.MEDICINE</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>PK_MEDICINE_745794749234B039</div><div>FK_MEDICINE_Cid_0B5CAFEA</div><div>FK_MEDICINE_Sid_0C50D423</div></div></div><div>[+] [Folder Icon] Constraints</div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>	<div><div>[-] [Table Icon] <b>dbo.SUPPLIER</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>PK_SUPPLIER_CA1E5D78E3BCA793</div><div>FK_SUPPLIER_Cid_0880433F</div></div></div><div>[+] [Folder Icon] Constraints</div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>
<div><div>[-] [Table Icon] <b>dbo.PHARMACY</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>PK_PHARMACY_012EEC46BADE5C7E</div><div>UQ_PHARMACY_F3DBC5722821BA1E</div></div></div><div>[+] [Folder Icon] Constraints</div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>	
<div><div>[-] [Table Icon] <b>dbo.POST</b></div><div><div>[+] [Folder Icon] Columns</div><div><div>[-] [Folder Icon] Keys</div><div><div>PK_POST_99F62ABC709A370F</div><div>FK_POST_Pid_10216507</div><div>UQ_POST_D9DE21FD916B97E2</div></div></div><div>[+] [Folder Icon] Constraints</div><div>[+] [Folder Icon] Triggers</div><div>[+] [Folder Icon] Indexes</div><div>[+] [Folder Icon] Statistics</div></div></div>	



# Database Term Project

## Basic queries

Retrieve Unique departments from the MEDICAL\_SUPERVISOR table

```
SELECT DISTINCT department FROM MEDICAL_SUPERVISOR;
```

119 %	
Results Messages	
	department
1	Cardiology
2	Neurology
3	Orthopedics

Retrieve doctors whose specialization is Cardiology

```
SELECT * FROM DOCTOR WHERE Specialization = 'Cardiologist';
```

119 %						
Results Messages						
	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1

Retrieve doctors specializing in either Cardiologist or Neurologist

```
SELECT * FROM DOCTOR WHERE Specialization = 'Cardiologist' OR Specialization = 'Neurologist';
```

119 %						
Results Messages						
	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1
2	3	Neurologist	DrMichaelBrown	neuro789	michael.brown@example.com	3

# Database Term Project

Select all from the DOCTOR table whose specialization is not Psychiatrist

```
SELECT * FROM DOCTOR
WHERE NOT Specialization = 'Psychiatrist';
```

	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1
2	2	Orthopedist	DrEmilyJones	ortho456	emily.jones@example.com	2
3	3	Neurologist	DrMichaelBrown	neuro789	michael.brown@example.com	3
4	4	Pediatrician	DrSarahMiller	pedscare	sarah.miller@example.com	1
5	5	Radiologist	DrDavidWilson	radexpert	david.wilson@example.com	1
6	6	Oncologist	DrJenniferLee	onco123	jennifer.lee@example.com	2
7	7	Surgeon	DrMarkTaylor	surg456	mark.taylor@example.com	3
8	9	Dermatologist	DrRobertMartinez	demcare	robert.martinez@example.com	2

Select bids with a price greater than 1500

```
SELECT * FROM BIDDING WHERE price < 1500;
```

	Bidno	status	price	M_Mid
1	1	Open	1000.00	1

Select pharmacies whose stock is greater than 300

```
SELECT * FROM PHARMACY WHERE stock > 300;
```

	P_Mid	username	password	department	Needed_medicines	stock
1	1	PhamaX	phamapass	Cardiology	Aspirin, Beta Blockers	500
2	3	NeuroPhama	neuromeds	Neurology	Antidepressants, Antipsychotics	400

# Database Term Project

Select medicines with a quantity less than or equal to 200

```
SELECT * FROM MEDICINE WHERE quantity <= 200;
```

	Medicine_name	Formula	Uses	quantity	Manufacture_date	Expire_date	Cid	Sid
1	Amoxicillin	C16H19N3O5S	Bacterial infections	100	2023-04-30	2024-04-30	4	2
2	Aspirin	C9H8O4	Pain relief, Anti-inflammatory	200	2023-01-15	2024-01-15	1	1
3	Hydrochlorothiazide	C7H8ClN3O4S2	Hypertension, Edema	120	2023-09-25	2024-09-25	1	3
4	Levofloxacin	C18H20FN3O4	Bacterial infections	200	2023-07-15	2024-07-15	3	2
5	Lisinopril	C21H31N3O5	Hypertension, Heart failure	150	2023-06-10	2024-06-10	2	1
6	Lorazepam	C15H10Cl2N2O2	Anxiety disorders, Insomnia	150	2023-03-25	2024-03-25	3	3
7	Metformin	C4H11N5	Type 2 diabetes	180	2023-11-05	2024-11-05	3	3
8	Simvastatin	C25H38O5	High cholesterol, Heart disease	180	2023-08-20	2024-08-20	4	3

Select medical Supervisors with experience greater or equal than 10

```
SELECT * FROM MEDICAL_SUPERVISOR WHERE experience >=10;
```

	M_Mid	username	password	department	WorkingHours	experience
1	1	DrJohnDoe	pass123	Cardiology	9am-5pm	10
2	3	DrMichaelJohnson	medic987	Neurology	10am-6pm	15

Select medicines where the Uses does not contain the 'Bacterial infections'

```
SELECT * FROM MEDICINE WHERE Uses NOT LIKE '%Bacterial infections%';
```

	Medicine_name	Formula	Uses	quantity	Manufacture_date	Expire_date	Cid	Sid
1	Aspirin	C9H8O4	Pain relief, Anti-inflammatory	200	2023-01-15	2024-01-15	1	1
2	Hydrochlorothiazide	C7H8ClN3O4S2	Hypertension, Edema	120	2023-09-25	2024-09-25	1	3
3	Ibuprofen	C13H18O2	Pain relief, Anti-inflammatory	300	2023-02-20	2024-02-20	2	2
4	Lisinopril	C21H31N3O5	Hypertension, Heart failure	150	2023-06-10	2024-06-10	2	1
5	Lorazepam	C15H10Cl2N2O2	Anxiety disorders, Insomnia	150	2023-03-25	2024-03-25	3	3
6	Metformin	C4H11N5	Type 2 diabetes	180	2023-11-05	2024-11-05	3	3
7	Omeprazole	C17H19N3O3S	Gastroesophageal reflux disease	220	2023-10-30	2024-10-30	2	1
8	Paracetamol	C8H9NO2	Pain relief, Fever reduction	250	2023-05-05	2024-05-05	1	1
9	Simvastatin	C25H38O5	High cholesterol, Heart disease	180	2023-08-20	2024-08-20	4	3

# Database Term Project

Select medicines with a Manufacture\_date between '2023-01-01' and '2023-06-01'

```
SELECT * FROM MEDICINE WHERE Manufacture_date BETWEEN '2023-01-01' AND '2023-06-01';
```

	Medicine_name	Fomula	Uses	quantity	Manufacture_date	Expire_date	Cid	Sid
1	Amoxicillin	C16H19N3O5S	Bacterial infections	100	2023-04-30	2024-04-30	4	2
2	Aspirin	C9H8O4	Pain relief, Anti-inflammatory	200	2023-01-15	2024-01-15	1	1
3	Ibuprofen	C13H18O2	Pain relief, Anti-inflammatory	300	2023-02-20	2024-02-20	2	2
4	Lorazepam	C15H10Cl2N2O2	Anxiety disorders, Insomnia	150	2023-03-25	2024-03-25	3	3
5	Paracetamol	C8H9NO2	Pain relief, Fever reduction	250	2023-05-05	2024-05-05	1	1

Select pharmacies whose usernames are 'PharmaX' or 'NeuroPharma '

```
SELECT * FROM PHARMACY WHERE username IN ('PharmaX', 'NeuroPharma');
```

	P_Mid	username	password	department	Needed_medicines	stock
1	1	PharmaX	phamapass	Cardiology	Aspirin, Beta Blockers	500
2	3	NeuroPharma	neuromeds	Neurology	Antidepressants, Antipsychotics	400

retrieve all rows from the COMPANY table where the city column does not match 'New York' or 'Chicago'

```
SELECT * FROM COMPANY WHERE city NOT IN ('New York', 'Chicago');
```

	Cid	Cname	contactno	email	city	area	state	P_Mid	Bidno
1	2	OrthoSupplies	2345678901	info@orthosupplies.com	Los Angeles	Beverly Hills	CA	2	2
2	4	PediatricPlus	4567890123	info@pediatricplus.com	Houston	Downtown	TX	4	2

# Database Term Project

Select doctors with names starting with 'S'

```
SELECT * FROM DOCTOR WHERE username LIKE '%S';
```

119 %						
Results Messages						
	Did	Specialization	username	password	email	M_Mid
1	2	Orthopedist	DrEmilyJones	ortho456	emily.jones@example.com	2

Select medicines with names not starting with 'A'

```
SELECT * FROM MEDICINE WHERE Medicine_name NOT LIKE 'A%';
```

119 %								
Results Messages								
	Medicine_name	Fomula	Uses	quantity	Manufacture_date	Expire_date	Cid	Sid
1	Hydrochlorothiazide	C7H8ClN3O4S2	Hypertension, Edema	120	2023-09-25	2024-09-25	1	3
2	Ibuprofen	C13H18O2	Pain relief, Anti-inflammatory	300	2023-02-20	2024-02-20	2	2
3	Levofloxacin	C18H20FN3O4	Bacterial infections	200	2023-07-15	2024-07-15	3	2
4	Lisinopril	C21H31N3O5	Hypertension, Heart failure	150	2023-06-10	2024-06-10	2	1
5	Lorazepam	C15H10Cl2N2O2	Anxiety disorders, Insomnia	150	2023-03-25	2024-03-25	3	3
6	Metformin	C4H11N5	Type 2 diabetes	180	2023-11-05	2024-11-05	3	3
7	Omeprazole	C17H19N3O3S	Gastroesophageal reflux disease	220	2023-10-30	2024-10-30	2	1
8	Paracetamol	C8H9NO2	Pain relief, Fever reduction	250	2023-05-05	2024-05-05	1	1
9	Simvastatin	C25H38O5	High cholesterol, Heart disease	180	2023-08-20	2024-08-20	4	3

Select name and quantity from MEDICINE table and alias the result

```
SELECT Medicine_name AS Medicine, quantity AS Stock FROM MEDICINE;
```

119 %		
Results Messages		
	Medicine	Stock
1	Amoxicillin	100
2	Aspirin	200
3	Hydrochlorothiazide	120
4	Ibuprofen	300
5	Levofloxacin	200
6	Lisinopril	150
7	Lorazepam	150
8	Metformin	180
9	Omeprazole	220

# Database Term Project

Retrieve all doctors who are not associated with any medical supervisor

```
SELECT * FROM DOCTOR WHERE M_Mid IS NOT NULL;
```

119 %

Results Messages

	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1
2	2	Orthopedist	DrEmilyJones	ortho456	emily.jones@example.com	2
3	3	Neurologist	DrMichaelBrown	neuro789	michael.brown@example.com	3
4	4	Pediatrician	DrSarahMiller	pedscare	sarah.miller@example.com	1
5	5	Radiologist	DrDavidWilson	radexpert	david.wilson@example.com	1
6	6	Oncologist	DrJenniferLee	onco123	jennifer.lee@example.com	2
7	7	Surgeon	DrMarkTaylor	surg456	mark.taylor@example.com	3
8	8	Psychiatrist	DrAmandaClark	psych789	amanda.clark@example.com	1
9	9	Dermatologist	DrRobertMartinez	demcare	robert.martinez@example.com	2

Order pharmacy by their stock

```
SELECT * FROM PHARMACY ORDER BY stock;
```

119 %

Results Messages

	P_Mid	username	password	department	Needed_medicines	stock
1	4	PediatricPlus	kidscare	Pediatrics	Vaccines, Antibiotics	200
2	2	OrthoMeds	ortho123	Orthopedics	Painkillers, Anti-inflammatory	300
3	3	NeuroPharma	neuromeds	Neurology	Antidepressants, Antipsychotics	400
4	1	PharmaX	phamapass	Cardiology	Aspirin, Beta Blockers	500

# Database Term Project

Order post by their date in descending order

```
SELECT * FROM POST ORDER BY date DESC;
```

	Posted_by	date	description	Pid
1	5	2023-05-30	Radiology imaging technology advancements	5
2	4	2023-04-25	Pediatrics vaccination drive announcement	4
3	3	2023-03-20	Neurology conference highlights	3
4	2	2023-02-15	Orthopedic case studies review	2
5	1	2023-01-10	Discussion about new cardiac treatments	1

## Aggregate functions

Count the names of doctors in the DOCTOR table

```
SELECT COUNT(username) AS TotalDoctors FROM DOCTOR;
```

	TotalDoctors
1	9

Calculate the average quantity of medicines in the MEDICINE table

```
SELECT AVG(quantity) AS AverageQuantity FROM MEDICINE;
```

	AverageQuantity
1	186

# Database Term Project

Select sum of price in the BIDDING table

```
SELECT SUM(price) AS TotalPrice FROM BIDDING;
```

119 %	
Results	Messages
	TotalPrice
1	4501.25

Find the minimum stock available in pharmacies in the PHARMACY table

```
SELECT MIN(stock) AS MinStock FROM PHARMACY;
```

119 %	
Results	Messages
	MinStock
1	200

Find the maximum price of bidding in the BIDDING table

```
SELECT MAX(price) AS MaxPrice FROM BIDDING;
```

119 %	
Results	Messages
	MaxPrice
1	2000.75



## Database Term Project

Select the department and sum of stock from the PHARMACY table, grouping by department, and filtering the results using the HAVING clause to only include departments where the sum of stock is less than 400

```
SELECT department, SUM(stock) AS TotalStock
FROM PHARMACY
GROUP BY department
HAVING SUM(stock) < 400;
```

119 %

Results Messages

	department	TotalStock
1	Orthopedics	300
2	Pediatrics	200

Add column Pharma\_Location in the PHARMACY table

```
ALTER TABLE PHARMACY
ADD Pharma_Location VARCHAR(100);

SELECT * FROM PHARMACY;
```

119 %

Results Messages

	P_Mid	username	password	department	Needed_medicines	stock	Pharma_Location
1	1	PhamaX	phamapass	Cardiology	Aspirin, Beta Blockers	500	NULL
2	2	OrthoMeds	ortho123	Orthopedics	Painkillers, Anti-inflammatory	300	NULL
3	3	NeuroPharma	neuromeds	Neurology	Antidepressants, Antipsychotics	400	NULL
4	4	PediatricPlus	kidscare	Pediatrics	Vaccines, Antibiotics	200	NULL

# Database Term Project

## Drop column Pharma\_Location in the PHARMACY table

```
ALTER TABLE PHARMACY  
DROP COLUMN Pharma_Location;  
  
SELECT * FROM PHARMACY;
```

119 %

Results Messages

	P_Mid	username	password	department	Needed_medicines	stock
1	1	PhamaX	phamapass	Cardiology	Aspirin, Beta Blockers	500
2	2	OrthoMeds	ortho123	Orthopedics	Painkillers, Anti-inflammatory	300
3	3	NeuroPharma	neuromeds	Neurology	Antidepressants, Antipsychotics	400
4	4	PediatricPlus	kidscare	Pediatrics	Vaccines, Antibiotics	200

## Inner join query

```
SELECT PHARMACY.username, PHARMACY.department, COMPANY.Cname, COMPANY.city  
FROM PHARMACY  
INNER JOIN COMPANY ON PHARMACY.P_Mid = COMPANY.P_Mid;
```

119 %

Results Messages

	username	department	Cname	city
1	PhamaX	Cardiology	HealthMeds	New York
2	OrthoMeds	Orthopedics	OrthoSupplies	Los Angeles
3	NeuroPharma	Neurology	NeuroPham	Chicago
4	PediatricPlus	Pediatrics	PediatricPlus	Houston

# Database Term Project

## Left join query

```
SELECT DOCTOR.username AS Doctor_Username, DOCTOR.Specialization,  
BIDDING.status, COMPANY.Cname AS Company_Name  
FROM DOCTOR  
LEFT JOIN BIDDING ON DOCTOR.Did = BIDDING.M_Mid  
LEFT JOIN COMPANY ON BIDDING.Bidno = COMPANY.Bidno;
```

119 %

Results Messages

	Doctor_Username	Specialization	status	Company_Name
1	DrJohnSmith	Cardiologist	Open	HealthMeds
2	DrEmilyJones	Orthopedist	Closed	OrthoSupplies
3	DrEmilyJones	Orthopedist	Closed	PediatricPlus
4	DrMichaelBrown	Neurologist	Pending	NeuroPharm
5	DrSarahMiller	Pediatrician	NULL	NULL
6	DrDavidWilson	Radiologist	NULL	NULL
7	DrJenniferLee	Oncologist	NULL	NULL
8	DrMarkTaylor	Surgeon	NULL	NULL
9	DrAmandaClark	Psychiatrist	NULL	NULL
10	DrRobertMartinez	Dermatologist	NULL	NULL

## Right join query

```
SELECT SUPPLIER.Sid, SUPPLIER.Fname AS Supplier_FirstName,  
SUPPLIER.Lname AS Supplier_LastName, COMPANY.Cname  
FROM SUPPLIER  
RIGHT JOIN COMPANY ON SUPPLIER.Cid = COMPANY.Cid;
```

119 %

Results Messages

	Sid	Supplier_FirstName	Supplier_LastName	Cname
1	1	William	Johnson	HealthMeds
2	2	Sophia	Davis	OrthoSupplies
3	3	Daniel	Taylor	NeuroPharm
4	NULL	NULL	NULL	PediatricPlus

# Database Term Project

## Full join query

```
SELECT DOCTOR.Did, DOCTOR.Specialization, MEDICINE.Medicine_name, MEDICINE.quantity
FROM DOCTOR
FULL JOIN MEDICINE ON DOCTOR.Specialization = MEDICINE.Medicine_name;
```

	Did	Specialization	Medicine_name	quantity
1	1	Cardiologist	NULL	NULL
2	2	Orthopedist	NULL	NULL
3	3	Neurologist	NULL	NULL
4	4	Pediatrician	NULL	NULL
5	5	Radiologist	NULL	NULL
6	6	Oncologist	NULL	NULL
7	7	Surgeon	NULL	NULL
8	8	Psychiatrist	NULL	NULL
9	9	Dermatologist	NULL	NULL
10	NULL	NULL	Amoxicillin	100
11	NULL	NULL	Aspirin	200
12	NULL	NULL	Hydrochlorothiazide	120
13	NULL	NULL	Ibuprofen	300
14	NULL	NULL	Levofloxacin	200
15	NULL	NULL	Lisinopril	150
16	NULL	NULL	Lorazepam	150
17	NULL	NULL	Metformin	180
18	NULL	NULL	Omeprazole	220
19	NULL	NULL	Paracetamol	250

Select all rows from the DOCTOR table where the M\_Mid is in a subquery that selects M\_Mid from the MEDICAL\_SUPERVISOR table where the experience is greater than 5

```
SELECT * FROM DOCTOR
WHERE M_Mid IN
    (SELECT M_Mid
     FROM MEDICAL_SUPERVISOR
     WHERE experience > 5);
```

	Did	Specialization	username	password	email	M_Mid
1	1	Cardiologist	DrJohnSmith	cardio123	john.smith@example.com	1
2	2	Orthopedist	DrEmilyJones	ortho456	emily.jones@example.com	2
3	3	Neurologist	DrMichaelBrown	neuro789	michael.brown@example.com	3
4	4	Pediatrician	DrSarahMiller	pedscare	sarah.miller@example.com	1
5	5	Radiologist	DrDavidWilson	radexpert	david.wilson@example.com	1
6	6	Oncologist	DrJenniferLee	onco123	jennifer.lee@example.com	2
7	7	Surgeon	DrMarkTaylor	surg456	mark.taylor@example.com	3
8	8	Psychiatrist	DrAmandaClark	psych789	amanda.clark@example.com	1
9	9	Dermatologist	DrRobertMartinez	demcare	robert.martinez@example.com	2

# Database Term Project

Updating the department of a specific MEDICAL\_SUPERVISOR by their M\_Mid

```
UPDATE MEDICAL_SUPERVISOR
SET department = 'Cardiology'
WHERE M_Mid = 3;
SELECT * FROM MEDICAL_SUPERVISOR;
```

119 %

Results Messages

	M_Mid	username	password	department	WorkingHours	experience
1	1	DrJohnDoe	pass123	Cardiology	9am-5pm	10
2	2	DrJaneSmith	securepwd	Orthopedics	8am-4pm	8
3	3	DrMichaelJohnson	medic987	Cardiology	10am-6pm	15

Drop the UNIQUE constraint from the email column in the DOCTOR table

```
ALTER TABLE DOCTOR
ADD CONSTRAINT unique_email UNIQUE (email);

ALTER TABLE DOCTOR
DROP CONSTRAINT unique_email;
```

119 %

Messages

Commands completed successfully.

Completion time: 2024-06-09T20:59:05.2864961+05:00