***** PHARMACY *****

```
CREATE TABLE doctor (
    d_id INT PRIMARY KEY,
    d_name VARCHAR(100) NOT NULL,
    d_speciality VARCHAR(100),
    d_year INT
);

SELECT * FROM doctor

DROP TABLE doctor

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (101, 'Hegde', 'Neurology', 33);

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (102, 'Prasad', 'Cardiac', 25);

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (103, 'Kulkarni', 'orthopedic', 31);

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (104, 'Roy', 'orthopedic', 21);

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (105, 'Hasilkar', 'dental', 13);

INSERT INTO doctor (d_id, d_name, d_speciality, d_year) VALUES (106, 'Ravi', 'Cardiac', 9);
```

	Doctor				
d_id	D_name	d_speciality	d_year		
101	Hegde	Neurology	33		
102	Prasad	Cardiac	25		
103	Kulkarni	orthopedic	31		
104	Roy	orthopedic	21		
105	Hasilkar	dental	13		
106	Ravi	Cardiac	9		

```
CREATE TABLE patient (

p_id INT PRIMARY KEY,

p_name VARCHAR(100) NOT NULL,

p_age INT NOT NULL,

address VARCHAR(100),

d_id INT,

FOREIGN KEY(d_id) REFERENCES doctor(d_id)
);

SELECT * FROM patient

DROP TABLE patient

INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5001, 'Kartik', 25, 'Hubli', 101);

INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5002, 'Sonu', 23, 'banglore', 102);
```

INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5003, 'Vishal', 52, 'Hubli', 103);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5004, 'Harsha', 12, 'Hubli', 103);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5005, 'Ragahv', 25, 'Belagavi', 104);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5006, 'Aarushi', 45, 'banglore', 105);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5007, 'Atharv', 32, 'Hubli', 106);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5008, 'Afzal', 36, 'Hubli', 103);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5009, 'Rashmi', 16, 'banglore', 102);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5010, 'Rajesh', 35, 'Hubli', 101);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5011, 'Mohan', 15, 'Hubli', 103);
INSERT INTO patient (p_id, p_name, p_age, address, d_id) VALUES (5012, 'Parth', 65, 'Hubli', 106);

	Patient				
p_id	p_name	p_age	address	d_id	
5001	Kartik	25	Hubli	101	
5002	Sonu	23	banglore	102	
5003	Vishal	52	Hubli	103	
5004	Harsha	12	Hubli	103	
5005	Ragahv	25	Belagavi	104	
5006	Aarushi	45	banglore	105	
5007	Atharv	32	Hubli	106	
5008	Afzal	36	Hubli	103	
5009	Rashmi	16	banglore	102	
5010	Rajesh	35	Hubli	101	
5011	Mohan	15	Hubli	103	
5012	Parth	65	Hubli	106	

```
CREATE TABLE pharmacetical_co (

PC_id INT PRIMARY KEY,

PC_name VARCHAR(100) NOT NULL,

phone INT,

address VARCHAR(100) NOT NULL
);

SELECT * FROM pharmacetical_co

DROP TABLE pharmacetical_co

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3001, 'Bayer', 123, 'India');

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3002, 'Lupin', 456, 'India');

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3003, 'Cipla', NULL, 'America');

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3004, 'Astra', 789, 'Russia');

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3005, 'Merck', 12345, 'India');

INSERT INTO pharmacetical_co (PC_id, PC_name, phone, address) VALUES (3006, 'Bristol', 67890, 'Russia');
```

pharmacetical co				
PC id PC name phone address			address	
3001	Bayer	123	India	
3002	Lupin	456	India	
3003	Cipla	NULL	America	
3004	Astra	789	Russia	
3005	Merck	12345	India	
3006	Bristol	67890	Russia	

```
CREATE TABLE drugs (

drug_name VARCHAR(50) PRIMARY KEY,

formula VARCHAR(100) NOT NULL,

trade_name VARCHAR(100) NOT NULL,

amt INT
);

SELECT * FROM drugs

DROP TABLE drugs

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('heroin', 'acch', 'A', 225);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('khat', 'hooch', 'B', 250);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('cocaine', 'choonh', 'c', 330);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('lsd', 'pchnoh', 'd', 125);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('dxm', 'chchch', 'e', 225);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('pcp', 'hochnop', 'f', 175);

INSERT INTO drugs (drug_name, formula, trade_name, amt) VALUES ('kt', 'pcononh', 'g', 80);
```

drugs				
drug_name	formula	trade_name	amt	
heroin	acch	Α	225	
khat	hooch	В	250	
cocaine	choonh	С	330	
Isd	pchnoh	D	125	
dxm	chchch	Е	225	
рср	hochnop	F	175	
kt	pocnonh	G	80	

```
create table contract (
cid INT PRIMARY KEY,
start_date date,
end_date date,
terms VARCHAR (100),
managerName VARCHAR(50)
);
```

SELECT * FROM contract

DROP TABLE contract

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (901, TO_DATE('01-Jan-06', 'DD-Mon-YY'), TO DATE('31-Dec-26', 'DD-Mon-YY'), NULL, 'darshan');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (902, TO_DATE('01-Feb-06', 'DD-Mon-YY'), TO_DATE('31-Dec-27', 'DD-Mon-YY'), NULL, 'rohan');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (903, TO_DATE('01-Mar-06', 'DD-Mon-YY'), TO_DATE('31-Dec-28', 'DD-Mon-YY'), NULL, 'rahul');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (904, TO_DATE('01-Apr-06', 'DD-Mon-YY'), TO_DATE('31-Dec-29', 'DD-Mon-YY'), NULL, 'raj');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (905, TO_DATE('01-May-06', 'DD-Mon-YY'), TO_DATE('31-Dec-30', 'DD-Mon-YY'), NULL, 'shiv');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (906, TO_DATE('01-Jun-06', 'DD-Mon-YY'), TO_DATE('31-Dec-31', 'DD-Mon-YY'), NULL, 'suraj');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (907, TO_DATE('01-Jul-06', 'DD-Mon-YY'), TO_DATE('31-Dec-32', 'DD-Mon-YY'), NULL, 'anup');

INSERT INTO contract (cid, start_date, end_date, terms, managerName) VALUES (908, TO_DATE('01-Aug-06', 'DD-Mon-YY'), TO_DATE('31-Dec-33', 'DD-Mon-YY'), NULL, 'anuj');

contract				
cid	start_date	end_date	terms	managerName
901	01-Jan-06	31-Dec-26		darshan
902	01-Feb-06	31-Dec-27		rohan
903	01-Mar-06	31-Dec-28		rahul
904	01-Apr-06	31-Dec-29		raj
905	01-May-06	31-Dec-30		shiv
906	01-Jun-06	31-Dec-31		suraj
907	01-Jul-06	31-Dec-32		anup
908	01-Aug-06	31-Dec-33		anuj

```
CREATE TABLE prescription(

pres_id INT PRIMARY KEY,

ondate VARCHAR(50) NOT NULL,

quantity INT,

did INT,

pid INT,

drug VARCHAR(50),

FOREIGN KEY(did) REFERENCES doctor(d_id),

FOREIGN KEY(pid) REFERENCES patient(p_id),

FOREIGN KEY(drug) REFERENCES drugs(drug_name)

);
```

SELECT * FROM prescription

DROP TABLE prescription

INSERT INTO prescription (pres_id, ondate, quantity, did, pid, drug) VALUES (201, '25-Jun-24', 300, 101, 5001, 'heroin');

INSERT INTO prescription (pres_id, ondate, quantity, did, pid, drug) VALUES (202, '26-Jun-24', 350, 102, 5002, 'khat');

INSERT INTO prescription (pres_id, ondate, quantity, did, pid, drug) VALUES (203, '27-Jun-24', 600, 102, 5002, 'cocaine');

INSERT INTO prescription (pres id, ondate, quantity, did, pid, drug) VALUES (204, '28-Jun-24', 450, 104, 5005, 'lsd');

INSERT INTO prescription (pres id, ondate, quantity, did, pid, drug) VALUES (205, '01-Jul-24', 250, 101, 5010, 'dxm');

INSERT INTO prescription (pres id, ondate, quantity, did, pid, drug) VALUES (206, '02-Jul-24', 400, 105, 5006, 'pcp');

INSERT INTO prescription (pres id, ondate, quantity, did, pid, drug) VALUES (207, '03-Jul-24', 450, 106, 5007, 'kt');

prescription					
pres_id	ondate	quantity	did	pid	drug
201	25-Jun-24	300	101	5001	heroin
202	26-Jun-24	350	102	5002	khat
203	27-Jun-24	600	102	5002	cocaine
204	28-Jun-24	450	104	5005	Isd
205	01-Jul-24	250	101	5010	dxm
206	02-Jul-24	400	105	5006	рср
207	03-Jul-24	450	106	5007	kt

CREATE TABLE pharmacy (

```
pharm name VARCHAR(50) PRIMARY KEY,
```

address VARCHAR(50) NOT NULL,

phone INT,

pres_id INT,

pc id INT,

cid INT,

FOREIGN KEY (pres_id) REFERENCES prescription (pres_id),

FOREIGN KEY (pc_id) REFERENCES pharmacetical_co (pc_id),

FOREIGN KEY (cid) REFERENCES contract (cid)

);

SELECT * FROM pharmacy

DROP TABLE pharmacy

INSERT INTO pharmacy (pharm_name, address, phone, pres_id, pc_id, cid) VALUES ('remedies', 'banglore', NULL, 201, 3001, 901);

INSERT INTO pharmacy (pharm name, address, phone, pres id, pc id, cid) VALUES ('miracle', 'banglore', NULL, 203, 3002, 902);

INSERT INTO pharmacy (pharm_name, address, phone, pres_id, pc_id, cid) VALUES ('pill', 'Hubli', NULL, 204, 3003, 903);

INSERT INTO pharmacy (pharm_name, address, phone, pres_id, pc_id, cid) VALUES ('paradise', 'banglore', NULL, 205, 3004, 904);

INSERT INTO pharmacy (pharm_name, address, phone, pres_id, pc_id, cid) VALUES ('hosp', 'Hubli', NULL, 206, 3005, 905);

INSERT INTO pharmacy (pharm_name, address, phone, pres_id, pc_id, cid) VALUES ('medplus', 'banglore', NULL, 207, 3006, 906);

Pharmacy					
pharm_name	address	phone	pres_id	pc_id	cid
remedies	banglore	NULL	201	3001	901
miracle	banglore	NULL	203	3002	902
pill	Hubli	NULL	204	3003	903
paradise	banglore	NULL	205	3004	904
hosp	Hubli	NULL	206	3005	905
medplus	banglore	NULL	207	3006	906
Cini	Dharwad	NULL	201	3006	902

Multiple table join operations along with Arithmetic, Logical operators - 6 Queries

Query 1: Retrieve the names of doctors who prescribed drugs with a quantity greater than 300.

SELECT d_name

FROM doctor, prescription

WHERE prescription.quantity > 300

AND doctor.d_id = prescription.did;

M D_NAME
Hasilkar
Prasad
Prasad
Ravi
Roy

Query 2: List the names of patients and their ages where the prescribed drug costs more than 200 and is managed by contracts ending after 2028.

SELECT p_name, p_age

FROM patient, prescription, drugs, pharmacy, contract

WHERE patient.p_id = prescription.pid

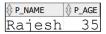
AND prescription.drug = drugs.drug_name

AND drugs.amt > 200

AND prescription.pres_id = pharmacy.pres_id

AND pharmacy.cid = contract.cid

AND contract.end_date > TO_DATE('31-Dec-28', 'DD-Mon-YY');



Query 3: Find the pharmaceutical companies that supplied drugs prescribed to patients older than 40 years.

SELECT PC_name

FROM pharmacetical_co, pharmacy, prescription, patient

WHERE pharmacetical_co.PC_id = pharmacy.pc_id

AND pharmacy.pres_id = prescription.pres_id

AND prescription.pid = patient.p_id

AND patient.p_age > 40;



Query 4: Display the doctor names and their specializations who prescribed heroin or khat.

SELECT d_name, d_speciality

FROM doctor, prescription

WHERE doctor.d_id = prescription.did

AND prescription.drug IN ('heroin', 'khat');

∯b_NAME ∯b_SPECIALITY Hegde Neurology PrasadCardiac

Query 5: List the details of prescriptions where the total amount (quantity × drug cost) exceeds 50,000.

SELECT prescription.*

FROM prescription, drugs

WHERE prescription.drug = drugs.drug_name

AND (prescription.quantity * drugs.amt) > 50000;

		∯ DID	∯ PID	
20125-Jun-24	300	101	5001	heroin
20226-Jun-24	350	102	5002	khat
20327-Jun-24				cocaine
20428-Jun-24	450	104	5005	lsd
20501-Jul-24	250	101	5010	dxm
20602-Jul-24	400	105	5006	рср

Query 6: Retrieve the names of contracts managed by individuals whose contracts started before 2008 and include pharmacies in Hubli.

SELECT managerName

FROM contract, pharmacy

WHERE contract.cid = pharmacy.cid

AND pharmacy.address = 'Hubli'

AND contract.start_date < TO_DATE('01-Jan-08', 'DD-Mon-YY');

∯MANAGERNAME rahul shiv

Different Clauses & Functions (Group by, having and order by Clause) - 6 Queries

Query 1: Count the number of patients under each doctor and display the doctor's name.

SELECT doctor.d_name, COUNT(patient.p_id) AS patient_count

FROM doctor, patient

WHERE doctor.d_id = patient.d_id

GROUP BY doctor.d_name;

⊕ D_NAME	PATIENT_COUNT
Prasad	2
Hegde	2
Hasilkar	1
Ravi	2
Kulkarni	4
Roy	1

Query 2: Display the drug name and total quantity prescribed for each drug, but only if the total quantity exceeds 500.

SELECT drugs.drug name, SUM(prescription.quantity) AS total quantity

FROM drugs, prescription

WHERE drugs.drug name = prescription.drug

GROUP BY drugs.drug name

HAVING SUM(prescription.quantity) > 500;

<pre> DRUG_NAME </pre>	♦ TOTAL_QUANTITY
cocaine	600

Query 3: Find the number of contracts managed by each manager and display their names, ordered by the number of contracts in descending order.

SELECT contract.managerName, COUNT(contract.cid) AS contract count

FROM contract

GROUP BY contract.managerName

ORDER BY contract_count DESC;

MANAGERNAME	# CONTRACT_COUNT
rohan	1
rahul	1
suraj	1
anuj	1
anup	1
darshan	1
shiv	1
raj	1

Query 4: List the pharmaceutical company names along with the number of pharmacies they supply drugs to, showing only those companies that supply to only 1 pharmacy.

SELECT pharmacetical_co.PC_name, COUNT(pharmacy.pharm_name) AS pharmacy_count

FROM pharmacetical_co, pharmacy

WHERE pharmacetical_co.PC_id = pharmacy.pc_id

GROUP BY pharmacetical_co.PC_name

HAVING COUNT(pharmacy.pharm_name) = 1;

PC_NAME	PHARMACY_COUNT
Cipla	1
Merck	1
Bayer	1
Lupin	1
Bristol	1
Astra	1

Query 5: Show the number of drugs prescribed by each doctor, ordered by the doctor's name.

SELECT doctor.d_name, COUNT(prescription.drug) AS drug_count

FROM doctor, prescription

WHERE doctor.d_id = prescription.did

GROUP BY doctor.d_name

ORDER BY doctor.d_name;

	♦ DRUG_COUNT
Hasilkar	1
Hegde	2
Prasad	2
Ravi	1
Roy	1

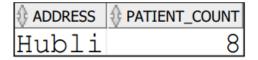
Query 6: Display the city (address) and the total number of patients from each city, but only for cities where more than 3 patients reside.

SELECT patient.address, COUNT(patient.p_id) AS patient_count

FROM patient

GROUP BY patient.address

HAVING COUNT(patient.p_id) > 3;



Sub-Query (Single Row (5 Queries), Multiple Row (4 Queries) and Correlated Nested

Single Row Subquery Example 1: Get the name of the manager with the earliest contract start date.

SELECT managerName

FROM contract

WHERE start_date = (

SELECT MIN(start_date)

FROM contract

);

Single Row Subquery Example 2: Find the name of the pharmacy with the highest ID.

SELECT managerName

FROM contract

WHERE cid = (

SELECT cid

```
FROM pharmacy
ORDER BY cid DESC
FETCH FIRST 1 ROW ONLY
);
```

Single Row Subquery Example 3: Get the name of the manager for a specific contract ID.

```
FROM contract

WHERE cid = (

SELECT cid

FROM pharmacy

WHERE address = 'Dharwad'

);
```

Single Row Subquery Example 4: Find the manager name who has a contract that started on a specific date.

```
FROM contract

WHERE start_date = (

SELECT start_date

FROM contract

WHERE cid = 123

);
```

Single Row Subquery Example 5: Get the manager name with the maximum number of contracts.

```
SELECT managerName

FROM contract

WHERE managerName = (

SELECT managerName

FROM contract

GROUP BY managerName

ORDER BY COUNT(*) DESC
```

```
FETCH FIRST 1 ROW ONLY );
```

Multiple Row Subqueries

Multiple Row Subquery Example 1: Get all manager names with contracts that started after a certain date.

```
SELECT managerName

FROM contract

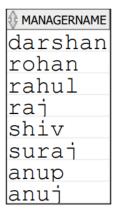
WHERE start_date IN (

SELECT start_date

FROM contract

WHERE start_date > TO_DATE('01-Jan-05', 'DD-Mon-YY')

);
```



Multiple Row Subquery Example 2: Find all pharmacy names in 'Hubli' that have contracts starting before 2008.

```
SELECT pharm_Name

FROM pharmacy

WHERE cid IN (

SELECT cid

FROM contract

WHERE start_date < TO_DATE('01-Jan-08', 'DD-Mon-YY')

);
```

Multiple Row Subquery Example 3: Get all manager names with contracts associated with pharmacies in a specific city.

```
FROM contract

WHERE cid IN (
SELECT cid

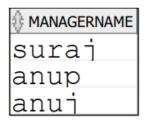
FROM pharmacy

WHERE address IN ('Hubli', 'Dharwad')

);
```

Multiple Row Subquery Example 4: List managers who have contracts that exceed a specific id number.

```
SELECT managerName
FROM contract
WHERE duration IN (
SELECT cid
FROM contract
WHERE cid>905
);
```



Correlated Nested Subquery

Correlated Nested Subquery Example 1: Get manager names for contracts that started after the average contract start date.

```
SELECT managerName

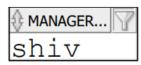
FROM contract c1

WHERE start_date < (

SELECT MAX(start_date)

FROM contract c2

WHERE c1.managerName = c2.managerName
);
```



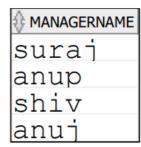
Correlated Nested Subquery Example 2: Find managers who have at least one contract with a duration greater than the average duration of all contracts.

FROM contract c1

WHERE cid > (

SELECT AVG(cid)

FROM contract c2
);



Correlated Nested Subquery Example 3: List pharmacies that have contracts where the start date is after the maximum start date for their specific manager.

```
SELECT pharm_Name

FROM pharmacy p

WHERE cid IN (

SELECT cid

FROM contract c

WHERE c.start_date = (

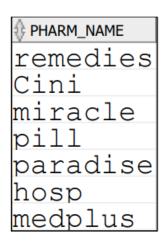
SELECT MAX(start_date)

FROM contract c2

WHERE c2.managerName = c.managerName

)

);
```



Correlated Nested Subquery Example 4: Get all managers whose contract duration is greater than the maximum duration of contracts for pharmacies located in 'Hubli'.

SELECT managerName

```
FROM contract c1

WHERE cid < (

SELECT MAX(cid)

FROM contract c2

WHERE c2.cid IN (

SELECT cid

FROM pharmacy

WHERE address = 'Hubli'
)
```



Query with Exist and Not Exist Operator (4 Queries)

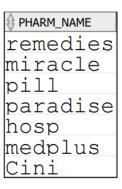
Using EXISTS

);

```
SELECT managerName
FROM contract c
                                           MANAGERNAME
WHERE EXISTS (
                                        rahul
 SELECT 1
                                         shiv
 FROM pharmacy p
 WHERE p.cid = c.cid
 AND p.address = 'Hubli'
);
```

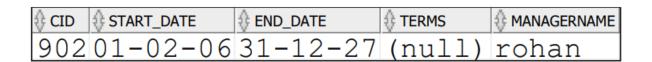
Query Example 2: Get all pharmacies that have at least one contract with a start date after January 1, 2008.

```
SELECT pharm_Name
FROM pharmacy p
WHERE EXISTS (
  SELECT 1
  FROM contract c
  WHERE c.cid = p.cid
  AND c.start_date > TO_DATE('01-Jan-05', 'DD-Mon-YY')
);
```



Query Example 3: Find all contracts for managers who manage pharmacies located in 'Dharwad'.

```
SELECT *
FROM contract c
WHERE EXISTS (
  SELECT 1
  FROM pharmacy p
  WHERE p.cid = c.cid
  AND p.address = 'Dharwad'
);
```



Query Example 4: List all managers who have contracts with a duration greater than 12 months, ensuring they manage pharmacies that have at least one contract.

```
SELECT DISTINCT managerName

FROM contract c

WHERE c.cid > 905

AND EXISTS (

SELECT 1

FROM pharmacy p

WHERE p.cid = c.cid
);
```

Using NOT EXISTS

Query Example 1: Find all managers who do not have any contracts associated with pharmacies in 'Hubli'.

```
FROM contract c

WHERE NOT EXISTS (

SELECT 1

FROM pharmacy p

WHERE p.cid = c.cid

AND p.address = 'Hubli'

PROM contract c

MANAGERNAME

ra j

anu j

rohan

anu p

sura j

darshan

AND p.address = 'Hubli'
```

Query Example 2: Get all pharmacies that do not have any contracts starting after January 1, 2008.

```
FROM pharmacy p

WHERE NOT EXISTS (

SELECT 1

FROM contract c

WHERE c.cid = p.cid

AND c.start_date > TO_DATE('01-Jan-06', 'DD-Mon-YY')

);
```

Query Example 3: Find all contracts for managers who do not manage any pharmacies located in 'Dharwad'.

```
SELECT *
                                                                MANAGERNAME

⊕ CID | ⊕ START_DATE

                                          ⊕ END_DATE

⊕ TERMS

                          90401-04-0631-12-29 (null) rai
FROM contract c
                          90801-08-0631-12-33 (null) anuj
                          90301-03-0631-12-28 (null) rahul
90501-05-0631-12-30 (null) shiv
WHERE NOT EXISTS (
 SELECT 1
                          90701-07-0631-12-32 (null) anup
                          90601-06-0631-12-31 (null) suraj
 FROM pharmacy p
                          90101-01-0631-12-26 (null) darshan
 WHERE p.cid = c.cid
 AND p.address = 'Dharwad'
);
```

Query Example 4: List all managers who do not have any contracts with a duration greater than 12 months.

```
SELECT DISTINCT managerName

FROM contract c

WHERE NOT EXISTS (

SELECT 1

FROM contract c2

WHERE c2.managerName = c.managerName

AND c2.cid > 905
);
```



Views (simple & complex Views) - 2 Queries

Simple View Example: Create a view to display the manager names and their corresponding pharmacy addresses.

CREATE VIEW Simple_ex AS

SELECT managerName, address

FROM contract c, pharmacy p

WHERE c.cid = p.cid;

SELECT * FROM Simple_ex;

MANAGERNAME	
darshan	banglore
rohan	Dharwad
rohan	banglore
rahul	Hubli
raj	banglore
shiv	Hubli
suraj	banglore

Complex View Example: Create a view to show the count of contracts per manager along with the average duration of those contracts.

CREATE VIEW Complex AS

SELECT c.managerName, COUNT(c.cid) AS contract_count, AVG(c.cid) AS average_duration

FROM contract c

GROUP BY c.managerName;

SELECT * FROM Complex;

↑ MANAGERNAME	♦ CONTRACT_COUNT	♠ AVERAGE_DURATION
rohan	1	902
rahul	1	903
suraj	1	906
raj	1	904
anup	1	907
darshan	1	901
shiv	1	905
anuj	1	908