SUB: DATABASE MANAGEMENT SYSTEM

CODE: 2CP01

BATCH: C

PROJECT NAME: MEDICAL STORE MANAGEMENT SYSTEM.

GROUP MEMBERS:

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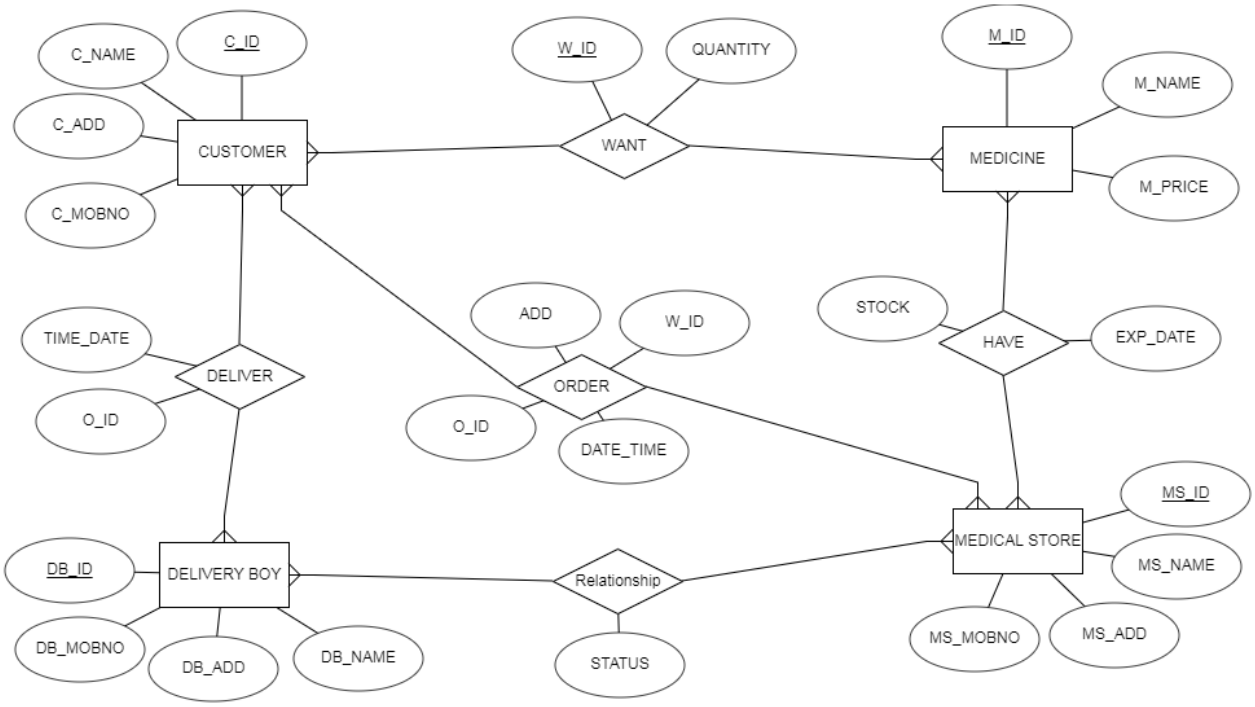
INTRODUCTION & FUNCTIONAL REQUIREMENT:-

- Our project is about medical store management system.
- By using this system we are going to manage the work of medical store and store the information of medical store.
- In this system, we will store the information of the customer like id, name, mobile number, pincode, address.
- We will store the information of medicine like, medicine name, prize, expiry date. Also we will store the date and time of the medicine purchase by the customer, order id, and from which medical store.
- We will store information about medical store like store no, store name, address, pincode.
- We also store the information about salesman like id, name, pincode, address, mobile number, work status.

- Also we store the information about the delivery of medicine.

- CUSTOMER can search medicine from the MEDICINE table, can give his/her interest for purchase, order the medicine.
- MEDICAL STORE: customer can order the medicine from any medical store.
- Delivery boy : delivery boy deliver the medicine and return the status.

E-R DIAGRAM



BY ERD PLUS

Here all tables are in many to many relationship, so cardinality will be 1,n for all.

Functional dependencies:-

1. Customer :

   C_id →C_name, C_add, C_mobno

2. Medicine:-

   M_id→ M_name, price

3. Medical store:-

   MS_id→ MS_name, MS_add, MS_mobno

4. Delivery boy:-

   DB_id→DB_name, DB_add, DB_mobno

➔ in all tables, Address attribute is a composite key, so, with a view to avoid redundancy we decompose all tables(which are containing address as attribute) into two tables.

Normalization of Database:-

→1st normal form:-

In this Database there is no multivalued attribute. So this database is in 1st normal form.

→2nd normal form:-

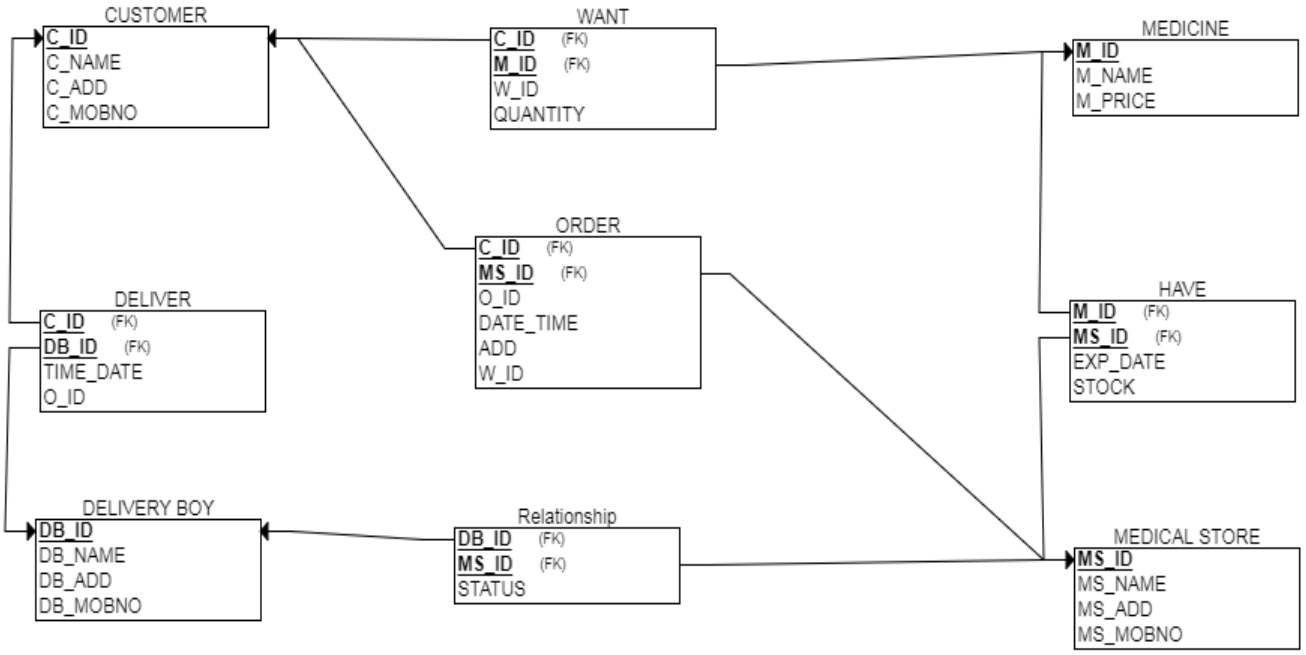
In this database there is no partial dependencies. So, this database is in 2nd normal form.

→3rd normal form:-

In this database there is no transitive dependency. So all tables are in 3rd normal form.

→ All tables are in BCNF also.

RELATIONAL MODEL



BY ERDPLUS.

DATA IN TABLES:

(1) Data of customer table:-

Here we are shown first 6 customers. Here we entered 23 customers in the database.

	c_id character varying	c_name character varying (30)	c_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	city character varying (20)	area character varying (20)
1	0000001	vala yash j.	8154010054	a/01	meera nagar 2	rajula	rajula
2	0000004	kishan maheta	8999876765	c/20	aparichit nagar	surat	kamrej
3	0000016	rameez khan	8989783456	a/221	ramanand appartment	surat	chindia
4	0000020	deep patel	9876565644	a/03	medical sociaty	ahmedabad	adroda
5	0000021	kirti sharma	9999888877	b/15	maheta nagar	bharuch	dahej
6	0000022	rahul vala	8154089767	c/20	india nagar	ahmedabad	hirapur

(2) Data of medicine:-

Here we are shown first 18 medicines. But we entered 60 medicines in the medicine table.

	m_id [PK] character varying (10)	m_name character varying (50)	price double precision
1	M000001	Entranosine	1.5
2	M000002	Caboposide	1.25
3	M000003	Drospitrace	1.75
4	M000004	Critrace	2
5	M000005	Tinzafine	1.56
6	M000006	Crivid	1.8
7	M000007	Boosnovate Abrastadil	1.3
8	M000008	Croferon Endovance	1.6
9	M000009	Empicadren Caffeitonin	2
10	M000010	Halonalin Acarfribrate	1.2
11	M0000011	Menodafinil	2.1
12	M000012	Dexlandine	2.3
13	M000013	Vivoline	1.75
14	M000014	Demeferal	3
15	M000015	Aquaporin	1.5
16	M000016	Thyrocelex	2
17	M000017	Cabonam Alvetrisin	1.2
18	M000018	Lidotrim Phosgene	1.2

(3) Data of medical_store table :-

Here we added 8 medical stores in database.

	ms_id character varying (10)	ms_name character varying (70)	ms_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	city character varying (20)	area character varying (20)
1	ms00001	maheta medical store	9899878767	s/20	hospital road	rajula	rajula
2	ms00002	city medical store	9999898987	s/2	city hospital road	ahmedabad	amril
3	ms00003	media medical store	8989787867	s/3	ahmedabad road	surat	chindia
4	ms00004	j&k mediacal store	9898767654	a/4	medical road	rajkot	dharoji
5	ms00005	a to z medical store	9876543210	s/4	bherai road	amreli	aagariya
6	ms00006	1 to 9 medical store	9090787867	s/3	khambhaliya road	kutch	adani port
7	ms00007	anand medical store	9898787655	c/20	meera nagar	surat	sachin
8	ms00008	mbbs medical store	8989786756	s/21	morbi road	rajkot	panel

(4) Data in delivery_boy table:-

Here we added 6 delivery boy details in database.

	db_id character varying (10)	db_name character varying (70)	db_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	city character varying (20)	area character varying (20)
1	db00001	aman maheta	9898786756	a/3	meera nagar 2	rajula	rajula
2	db00002	jayesh patel	9089546323	a/2	near school	rajula	aagariya
3	db00003	jethalal patel	9087564534	b/3	company section	rajula	pipawaw
4	db00004	bhidenhai shah	8978675645	a/4	near silver hight	rajkot	dharoji
5	db00005	popatlal hathi	9087654532	c/10	raj chok	surat	chindia
6	db00006	abdul khan	9856435678	a/30	bherai	rajula	bherai

Similarly, we entered proper data in relation tables also.

10 meaningful queries:-

1) Display all customer who haven’t paid for the medicine, but only apply for that medicine.

Query:- select c_id,c_name,c_mono from customer natural join orders where c_id not in (select c_id from deliver);

	c_id character varying	c_name character varying (30)	c_mono numeric
1	0000006	parth patel	9878675645
2	0000004	kishan maheta	8999876765

2) Print all details of delivery man who deliver the medicine to rameez khan:-

Query:- select * from d_boy where db_id in (select db_id from deliver natural join customer where c_name='rameez khan');

	db_id [PK] character varying (10)	db_name character varying (70)	db_mono numeric
1	db00001	aman maheta	9898786756

3)If any customer wants to find the name of medicine which is starts from A and end at e. So, display all medicine having name starts from A and end at e :-

Query :- select * from medicine where m_name like 'A%e';

	m_id [PK] character varying (10)	m_name character varying (50)	price double precision
1	M000045	Addezyme	3
2	M000050	Antaxetine Demecline	0.25

4) Count the persons by whom medicine “Entranosine” is wanted or purchased.

Query:- select count(w_id) as want_by_person from want join (select m_id as id from medicine where m_name = 'Entranosine') as id on id.id = want.m_id;

	want_by_person bigint
1	2

5) Display all customers details whose delivery is completed.

Query :- select c_id,c_name,c_mono,add_fn0,add_sno,area from deliver natural join (select * from c_add natural join customer) as c;

	c_id character varying	c_name character varying (30)	c_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	area character varying (20)
1	0000001	vala yash j.	8154010054	a/01	meera nagar 2	rajula
2	0000016	rameez khan	8989783456	a/221	ramanand appartment	chindia

6)Display all medical stores who have no delivery man.

Query :- select * from medical_store natural join ms_add where ms_id not in (select ms_id from connections);

	ms_id character varying (10)	ms_name character varying (70)	ms_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	city character varying (20)	area character varying (20)
1	ms00002	city medical store	9999898987	s/2	city hospital road	ahmedabad	amril
2	ms00005	a to z medical store	9876543210	s/4	bherai road	amreli	aagariya
3	ms00006	1 to 9 medical store	9090787867	s/3	khambhaliya road	kutch	adani port

7) When want id=1 wants to purchase the medicine is with quantity=201 , then check the stock of it and display those stores which have less quantity than wanted by customer.

Query:- select ms_id,stock,quentity from want natural join have where w_id='w000001'group by quentity,stock,ms_id having stock <= quentity;

	ms_id character varying (10)	stock numeric	quentity numeric
1	ms00003	200	201

8) Display all medical stores details with address which have stock greater than wanted quantity for want id=1.

Query:- select distinct(ms.ms_id),ms.ms_name,ms.ms_mono,ma.add_fn0,ma.add_sno,ma.area,ma.city from (medical_store as ms natural join ms_add as ma)
natural join (select ms_id,stock,quentity from want natural join have where w_id='w000001' group by quentity,stock,ms_id having stock > quentity) as m;

	ms_id character varying (10)	ms_name character varying (70)	ms_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	area character varying (20)	city character varying (20)
1	ms00001	maheta medical store	9899878767	s/20	hospital road	rajula	rajula
2	ms00006	1 to 9 medical store	9090787867	s/3	khambhaliya road	adani port	kutch

9) Display the remaining stock for each medical store for the same condition as above.

Query:- select ms_id,stock,quentity,stock-quentity as remaining_stock from want natural join have where w_id='w000001'group by quentity,stock,ms_id having stock > quentity;

	ms_id character varying (10)	stock numeric	quentity numeric	remaining_stock numeric
1	ms00006	240	201	39
2	ms00001	300	201	99

10) Display the data of delivery boy with the customer details whose delivery is done.

Query:- select db_id,db_name,c_name,c_mono,add_fn0,add_sno,city,area from c_add join (select db_id,db_name,c_id as id,c_name,c_mono from (deliver natural join d_boy) natural join customer) as c_info on c_add.c_id=id;

	db_id character varying (10)	db_name character varying (70)	c_name character varying (30)	c_mono numeric	add_fn0 character varying (20)	add_sno character varying (20)	city character varying (20)	area character varying (20)
1	db00001	aman maheta	vala yash j.	8154010054	a/01	meera nagar 2	rajula	rajula
2	db00001	aman maheta	rameez khan	8989783456	a/221	ramanand appartment	surat	chindia

To see the database click here .

By just copy and paste it in your server, you can also make the database and also you can see all the query of our project.

Thank you…