

**DATABASE MANAGEMENT SYSTEM  
PROJECT**



**PROJECT REPORT  
WEB STORE DATABASE  
DESIGN**

By

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## **PROBLEM STATEMENT :**

The aim of this project is to make a Database for an online shopping/ service website to manage the orders in their website and maintaining all the orders and transactions made through their site which is normalized to maximum extent and reducing data redundancy.

## **ASSUMPTIONS :**

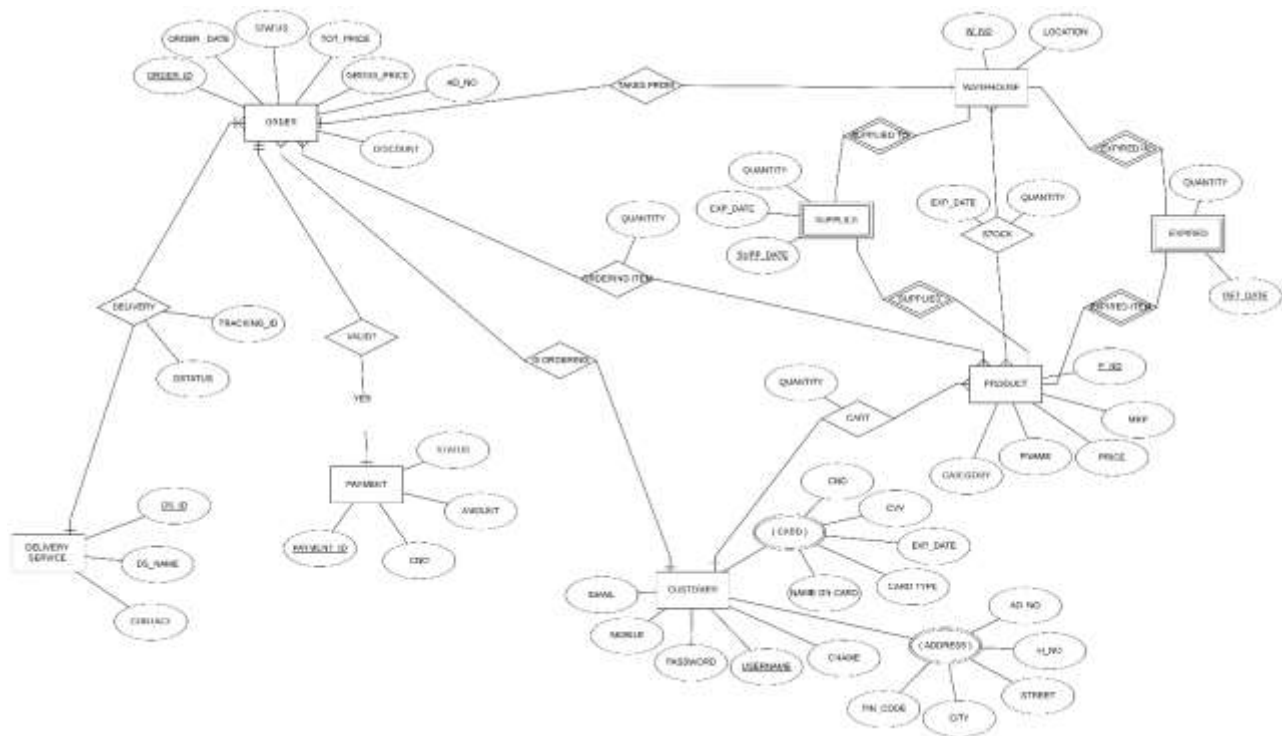
1. All the products are stored in **WAREHOUSE** and warehouse's are established in multiple locations from which the products ordered from the site are delivered to the customer. Each warehouse has an unique ID
2. All records of products are stored in **PRODUCT** table. Each product has a unique product ID. The price of the product, name and category of the product are stored in this table.
3. **STOCK** is the relation between product and ware house which gives us the quantity of all products present in every ware house along with its expiry date.
4. The record of no of products being supplied, supplied date and expiry date to a ware house are maintained by **SUPPLIES** table. Supplies are received only if the quantity of the product in the ware house is zero.
5. The products are checked every day. If a product is found expired in a ware house then it will be returned back and **EXPIRED** table keeps a track of all items.
6. **CUSTOMER** table stores the details of customer i.e, username and password. Each customer is identified by a unique username. A customer can store multiple address and cards payments are made only through the cards saved by the customer and the orders are delivered to the address saved by the customer.

7. **CART** table gives the relation between a customer and the products. The products and its quantity wish listed by the customer are stored in this table.
8. All the orders placed by the customer are stored in **ORDER** table which are identified by order\_id. The record of no of products ordered, the address to which it is delivered, the price of the order and the ware house from which the products are delivered are maintained in this table. An order can be successfully placed only if all the products in the order are available in stock from a single warehouse and the payment is successful.
9. The payment of every order placed will be received online using debit card only. If the payment is failed then order will be cancelled. Once the status of payment is successful then order is successfully placed.
10. Every order placed from the site are delivered by a delivery service and is stored in **DELIVERY** table. Each delivery can be tracked by the customer using the tracking id provided by the service.

## **PROCESS :**

1. The products are stored in multiple Warehouse's.
2. Customer orders products from the website.
3. If all the products in order are present in a single warehouse in required quantity then it is proceeded to payments.
4. If payment is successful then order is placed.
5. Payment is made only through online transactions using debit cards.
6. After successful order it is sent through delivery service to the saved address.

## ENTITY RELATIONSHIP DIAGRAM : [LINK](#)



### ENTITIES

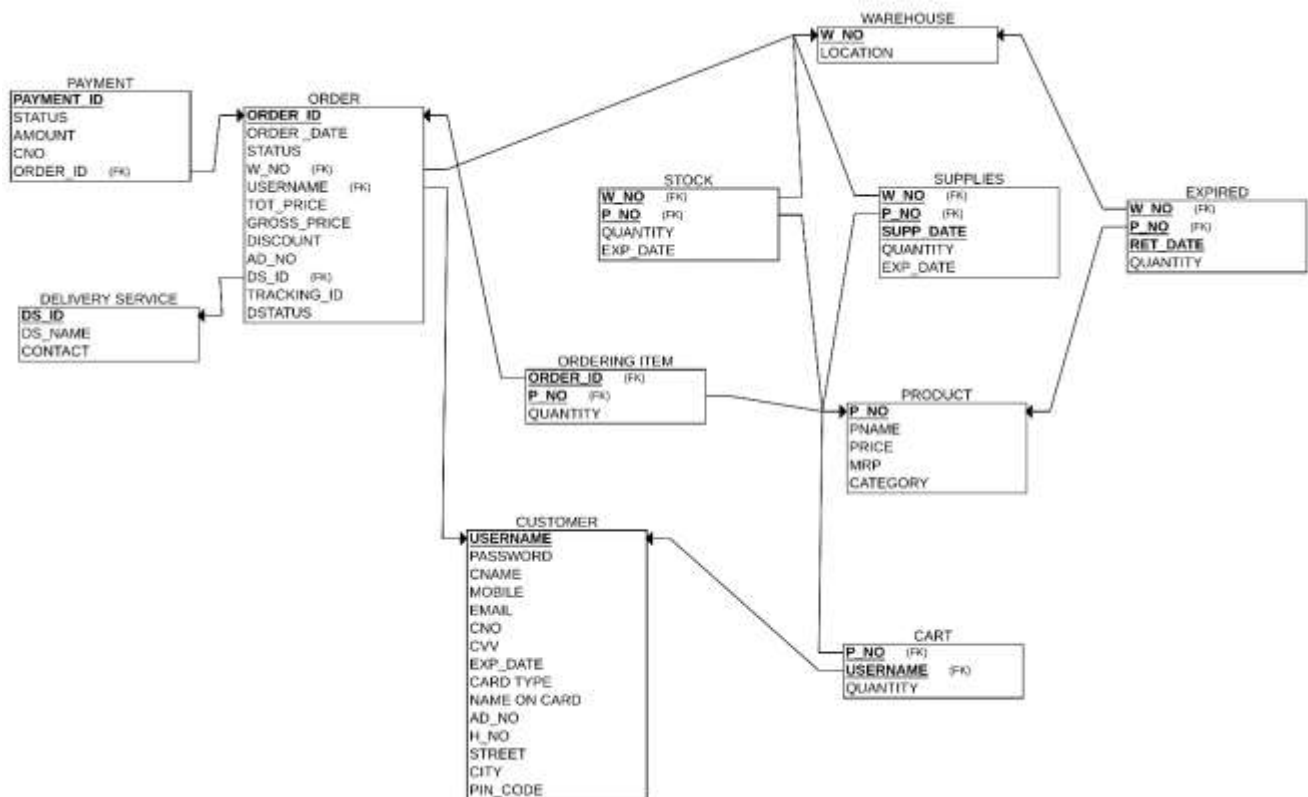
Customer  
Product  
Ware House  
Order  
Payment  
Delivery Service  
Supplies  
Expired

### RELATION

Cart  
Is Ordering  
Supplies To, Supplied  
Stock  
Expired IN, Expired Item  
Takes From  
Ordering Item  
Delivery

SUPPLIES is identified by relations SUPPLIED and SUPPLIED TO  
EXPIRED is identified by relations EXPIRED IN, EXPIRED ITEM

## RELATIONAL SCHEMA: [LINK](#)



## FUNCTIONAL DEPENDENCIES AND TABLES BEFORE NORMALIZATION:

1.

### WARE HOUSE:

(W\_ID, LOCATION)

W\_NO -> LOCATION

NORMAL FORM: BCNF

2.

### PRODUCTS:

(P\_NO, PNAME, PRICE, MRP, CATEGORY)

P\_NO -> PNAME, PRICE, MRP, CATEGORY

NORMAL FORM: BCNF

3.

### STOCK:

(W\_NO, P\_NO, QUANTITY, EXP\_DATE)

W\_NO, P\_NO -> QUANTITY, EXP\_DATE

NORMAL FORM: BCNF

4.

**SUPPLIES:**

(W\_NO,P\_NO,QUANTITY,SUPP\_DATE,EXP\_DATE)

W\_NO,P\_NO,SUPP\_DATE -> QUANTITY,EXP\_DATE

NORMAL FORM; BCNF

5.

**EXPIRED:**

(W\_NO,P\_NO,RET\_DATE,QUANTITY)

W\_NO,P\_NO,RET\_DATE -> QUANTITY

NORMAL FORM: BCNF

6.

**CUSTOMER:**

(USERNAME,PASSWORD,CNAME,MOBILE,EMAIL,CNO,CVV,EXP\_DATE,  
CARD\_TYPE,NAMEONCARD,AD\_NO,HNO,STREETCITY,PINCODE)

USERNAME,CNO,AD\_ID -> PASSWORD,CNAME,MOBILE,EMAIL,CVV,  
EXP\_DATE,CARD\_TYPE,NAMEONCARD,HNO,  
STREET,CITY,PINCODE

USERNAME -> PASSWORD,CNAME,MOBILE,EMAIL

USERNAME,CNO -> CVV,EXP\_DATE,CARD\_TYPE,NAMEONCARD

USERNAME,AD\_NO -> HNO,STREET,CITY,PINCODE

NORMAL FORM: NOT IN ANY NORMAL FORM

7.

**CART:**

(USERNAME,P\_NO,QUANTITY)

USERNAME,P\_NO -> QUANTITY

NORMAL FORM: BCNF

8.

**DELIVERY SERVICE:**

(DS\_ID,DS\_NAME,CONTACT)

DS\_ID -> DS\_NAME,CONTACT

NORMAL FORM : BCNF

9.

**ORDER:**

(ORDER\_ID,ORDER\_DATE,STATUS,W\_NO,USERNAME,TOT\_PRICE,  
GROSS\_PRICE,DISCOUNT,AD\_NO,DS\_ID,TRACKING\_ID,DSTATUS)

ORDER\_ID -> ORDER\_DATE,STATUS,W\_NO,USERNAME,TOT\_PRICE,  
GROSS\_PRICE,DISCOUNT,AD\_NO,DS\_ID,TRACKING\_ID  
DSTATUS

NORMAL FORM: BCNF

10.

**ORDERING\_ITEM:**

(ORDER\_ID,P\_NO,QUANTITY)  
ORDER\_ID,P\_NO -> QUANTITY

NORMAL FORM : BCNF

11.

**PAYMENT:**

(PAYMENT\_ID,STATUS,AMOUNT,CNO,ORDER\_ID,AMOUNT)  
PAYMENT\_ID -> STATUS,AMOUNT,CNO,ORDER\_ID,AMOUNT

NORMAL FORM: BCNF

## **FUNCTIONAL DEPENDENCIES AND TABLES AFTER NORMALIZATION:**

**1.**

### **WARE HOUSE:**

(W\_ID, LOCATION)

W\_NO -> LOCATION

NORMAL FORM: BCNF

**2.**

### **PRODUCTS:**

(P\_NO, PNAME, PRICE, MRP, CATEGORY)

P\_NO -> PNAME, PRICE, MRP, CATEGORY

NORMAL FORM: BCNF

**3.**

### **STOCK:**

(W\_NO, P\_NO, QUANTITY, EXP\_DATE)

W\_NO, P\_NO -> QUANTITY, EXP\_DATE

NORMAL FORM: BCNF

**4.**

### **SUPPLIES:**

(W\_NO, P\_NO, QUANTITY, SUPP\_DATE, EXP\_DATE)

W\_NO, P\_NO, SUPP\_DATE -> QUANTITY, EXP\_DATE

NORMAL FORM; BCNF

**5.**

### **EXPIRED:**

(W\_NO, P\_NO, RET\_DATE, QUANTITY)

W\_NO, P\_NO, RET\_DATE -> QUANTITY

NORMAL FORM: BCNF



**6.**

**CUSTOMER:**

Customer table after normalization decomposed into  
CUSTOMER, ADDRESS, CARD

CUSTOMER (USERNAME, PASSWORD, CNAME, MOBILE, EMAIL)

ADDRESS (USERNAME, AD\_NO, HNO, STREET, CITY, PINCODE)

CARD (USERNAME, CNO, CVV, EXP\_DATE, CARD\_TYPE, NAMEONCARD)

USERNAME -> PASSWORD, CNAME, MOBILE, EMAIL

USERNAME, AD\_NO -> HNO, STREET, CITY, PINCODE

USERNAME, CNO -> CVV, EXP\_DATE, CARD\_TYPE, NAMEONCARD

NORMAL FORM: BCNF

**7.**

**ADDRESS:**

(USERNAME, AD\_NO, HNO, STREET, CITY, PINCODE)

USERNAME, AD\_NO -> HNO, STREET, CITY, PINCODE

NORMAL FORM : BCNF

**8.**

**CARD:**

(USERNAME, CNO, CVV, EXP\_DATE, CARD\_TYPE, NAMEONCARD)

USERNAME, CNO -> CVV, EXP\_DATE, CARD\_TYPE, NAMEONCARD

NORMAL FORM: BCNF

**9.**

**CART:**

(USERNAME, P\_NO, QUANTITY)

USERNAME, P\_NO -> QUANTITY

NORMAL FORM: BCNF

**10.**

**DELIVERY SERVICE:**

(DS\_ID, DS\_NAME, CONTACT)

DS\_ID -> DS\_NAME, CONTACT

NORMAL FORM : BCNF

**11.**

**ORDER:**

(ORDER\_ID,ORDER\_DATE,STATUS,W\_NO,USERNAME,TOT\_PRICE,  
GROSS\_PRICE,DISCOUNT,AD\_NO,DS\_ID,TRACKING\_ID,DSTATUS)

ORDER\_ID -> ORDER\_DATE,STATUS,W\_NO,USERNAME,TOT\_PRICE,  
GROSS\_PRICE,DISCOUNT,AD\_NO,DS\_ID,TRACKING\_ID  
DSTATUS

NORMAL FORM: BCNF

**12.**

**ORDERING\_ITEM:**

(ORDER\_ID,P\_NO,QUANTITY)  
ORDER\_ID,P\_NO -> QUANTITY  
NORMAL FORM : BCNF

**13.**

**PAYMENT:**

(PAYMENT\_ID,STATUS,AMOUNT,CNO,ORDER\_ID,AMOUNT)  
PAYMENT\_ID -> STATUS,AMOUNT,CNO,ORDER\_ID,AMOUNT  
NORMAL FORM: BCNF

## SQL CODE

```
create database ashish_dbms;  
use ashish_dbms;
```

```
create table warehouse(  
w_no int primary key,  
location varchar(20)  
);
```

```
create table products (  
p_no int primary key,  
pname varchar(50),  
price float,  
mrp float,  
category varchar(20)  
);
```

```
create table stock (  
p_no int,  
w_no int,  
quantity int,  
exp_date date,  
primary key(p_no,w_no),  
foreign key(p_no) references products(p_no),  
foreign key(w_no) references warehouse(w_no)  
);
```

```
create table supplies(  
p_no int,
```

```
w_no int,  
supp_date date,  
quantity int,  
exp_date date,  
Primarykey(p_no,w_no,supp_date),  
foreign key(p_no) references products(p_no),  
foreign key(w_no) references warehouse(w_no)  
);
```

```
create table expired (  
p_no int,  
w_no int,  
ret_date date,  
quantity int,  
primary key(p_no,w_no,ret_date),  
foreign key(p_no) references products(p_no),  
foreign key(w_no) references warehouse(w_no)  
);
```

```
create table customer (  
username varchar(50) primary key,  
pass varchar(50),  
cname varchar(50),  
phno varchar(10),  
email varchar(50)  
);
```

```
create table card (  
cno int,  
username varchar(50),
```

```
cvv int,  
exp_date date,  
nameoncard varchar(50),  
card_type varchar(20),  
primary key(cno,username),  
foreign key(username) references customer(username)  
);
```

```
create table address(  
ad_no int,  
username varchar(50),  
hno varchar(10),  
street varchar(10),  
city varchar(50),  
pincode int,  
primary key(ad_no,username),  
foreign key (username) references customer(username)  
);
```

```
create table cart (  
username varchar(50),  
p_no int,  
quantity int,  
primary key(username,p_no),  
foreign key (username) references customer(username),  
foreign key (p_no) references products(p_no)  
);
```

```
create table delivery_service (  
ds_id int primary key,  
ds_name varchar(50),  
contact varchar(50)  
);
```

```
create table order_ (  
order_id int primary key,  
order_date date,  
order_status varchar(20),  
w_no int,  
username varchar(50),  
tot_price float,  
grrss_price float,  
discount float, ad_no int,  
ds_id int,  
tracking_id int,  
dstatus varchar(20),  
foreign key (w_no) references warehouse(w_no),  
foreign key (username) references customer(username),  
foreign key (ad_no) references address(ad_no),  
foreign key (ds_id) references delivery_service(ds_id)  
);
```

```
create table order_item(  
order_id int, p_no int,  
quantity int,  
primary key(order_id,p_no),  
foreign key(order_id) references order_(order_id),  
foreign key(p_no) references products(p_no)  
);
```

```

create table payment (
payment_id int primary key,
payment_status varchar(20),
amount float,
cno int,
order_id int,
foreign key (cno) references card(cno),
foreign key (order_id) references order_(order_id)
);

```

Action Output				
#	Time	Action	Message	Duration / Fetch
1	15:45:54	create database ashish_dbms	1 row(s) affected	0.000 sec
2	15:55:53	use ashish_dbms	0 row(s) affected	0.000 sec
3	16:05:45	create table warehouse ( w_no int primary key, location varchar(20) )	0 row(s) affected	0.031 sec
4	16:05:10	create table products ( p_no int primary key, pname varchar(50), price float, msp float, cat...	0 row(s) affected	0.016 sec
5	16:06:15	create table stock ( p_no int, w_no int, quantity int, exp_date date, primary key(p_no,w_n...	0 row(s) affected	0.031 sec
6	16:08:39	create table supplies ( p_no int, w_no int, supp_date date, quantity int, exp_date date, pri...	0 row(s) affected	0.031 sec
7	16:10:08	create table expired ( p_no int, w_no int, ret_date date, quantity int, primary key(p_no,w_...	0 row(s) affected	0.032 sec
8	16:10:08	create table customer ( username varchar(50) primary key, pass varchar(50), cname varc...	0 row(s) affected	0.015 sec
9	16:10:08	create table card ( cno int, username varchar(50), cvv int, exp_date date, nameoncard v...	0 row(s) affected	0.016 sec
10	16:12:30	create table address ( ad_no int, username varchar(50), hno varchar(10), street varchar(1...	0 row(s) affected	0.031 sec
11	16:12:59	create table cart ( username varchar(50), p_no int, quantity int, primary key(username,p_n...	0 row(s) affected	0.031 sec
12	16:12:59	create table delivery_service ( ds_id int primary key, ds_name varchar(50), contact varc...	0 row(s) affected	0.016 sec
13	16:12:59	create table order_ ( order_id int primary key, order_date date, order_status varchar(20), ...	0 row(s) affected	0.031 sec
14	16:13:40	create table order_item ( order_id int, p_no int, quantity int, primary key(order_id,p_no), for...	0 row(s) affected	0.031 sec
15	16:13:40	create table payment ( payment_id int primary key, payment_status varchar(20), amount fl...	0 row(s) affected	0.016 sec

## INSERTION OF VALUES

```

insert into warehouse values(1,'HYDERABAD');
insert into warehouse values(2,'BENGALURU');
insert into warehouse values(3,'MUMBAI');

```

```

select * from warehouse;

```

```
insert into products values(1,'IQOO7',25000,29000,'ELECTRONICS');
insert into products values(2,'IPHONE 14 PRO
MAX',130000,139900,'ELECTRONICS');
insert into products values(3,'FERRERO ROCHER',120,150,'FOOD');
insert into products values(4,'HERSHEY KISSES',90,140,'FOOD');
insert into products values(5,'BOAT AIRDOPE',1299,1700,'ACCESORIES');
insert into products values(6,'MYSORE SANDAL SOAP',50,60,'COSMETICS');
insert into products values(7,'MAGGI',10,12,'GROCERIES');
insert into products values(8,'BOOST',100,105,'GROCERIES');
```

```
select * from products;
```

```
insert into stock values(1,1,4,null);
insert into stock values(2,1,11,null);
insert into stock values(3,1,7,str_to_date('5-20-2023','%m-%d-%Y'));
insert into stock values(4,1,11,str_to_date('6-1-2023','%m-%d-%Y'));
insert into stock values(5,1,10,str_to_date('5-21-2023','%m-%d-%Y'));
insert into stock values(3,2,9,str_to_date('6-01-2023','%m-%d-%Y'));
insert into stock values(4,2,18,str_to_date('5-30-2023','%m-%d-%Y'));
insert into stock values(5,2,10,null);
insert into stock values(6,2,19,str_to_date('5-11-2023','%m-%d-%Y'));
insert into stock values(7,2,11,str_to_date('5-10-2023','%m-%d-%Y'));
insert into stock values(1,3,1,null);insert into stock values(2,3,6,null);
insert into stock values(6,3,13,str_to_date('6-09-2023','%m-%d-%Y'));
insert into stock values(7,3,5,str_to_date('6-05-2023','%m-%d-%Y'));
insert into stock values(8,3,4,str_to_date('6-04-2023','%m-%d-%Y'));
```

```
select * from stock;
```



```
insert into supplies values(1,1,str_to_date('6-11-2021','%m-%d-%Y'),5,null);
insert into supplies values(2,1,str_to_date('6-01-2021','%m-%d-%Y'),11,null);
insert into supplies values(3,1,str_to_date('6-14-2021','%m-%d-%Y'),9,str_to_date('6-11-2023','%m-%d-%Y'));
insert into supplies values(4,1,str_to_date('6-12-2021','%m-%d-%Y'),11,str_to_date('6-1-2023','%m-%d-%Y'));
insert into supplies values(5,1,str_to_date('6-22-2021','%m-%d-%Y'),13,str_to_date('6-21-2023','%m-%d-%Y'));
insert into supplies values(3,2,str_to_date('6-19-2021','%m-%d-%Y'),10,str_to_date('6-01-2023','%m-%d-%Y'));
insert into supplies values(4,2,str_to_date('6-16-2021','%m-%d-%Y'),22,str_to_date('6-30-2023','%m-%d-%Y'));
insert into supplies values(5,2,str_to_date('6-14-2021','%m-%d-%Y'),10,null);
insert into supplies values(6,2,str_to_date('6-10-2021','%m-%d-%Y'),19,str_to_date('6-11-2023','%m-%d-%Y'));
insert into supplies values(7,2,str_to_date('6-10-2021','%m-%d-%Y'),14,str_to_date('6-10-2023','%m-%d-%Y'));
insert into supplies values(1,3,str_to_date('6-07-2021','%m-%d-%Y'),11,null);
insert into supplies values(2,3,str_to_date('6-18-2021','%m-%d-%Y'),1,null);
insert into supplies values(6,3,str_to_date('6-14-2021','%m-%d-%Y'),7,str_to_date('6-09-2023','%m-%d-%Y'));
insert into supplies values(7,3,str_to_date('6-25-2021','%m-%d-%Y'),16,str_to_date('6-05-2023','%m-%d-%Y'));
insert into supplies values(8,3,str_to_date('6-29-2021','%m-%d-%Y'),5,str_to_date('6-04-2023','%m-%d-%Y'));
insert into supplies values(8,3,str_to_date('6-20-2021','%m-%d-%Y'),9,str_to_date('01-01-2022','%m-%d-%Y'));

select * from supplies;
```

```
insert into expired values(8,3,str_to_date('01-01-2022','%m-%d-%Y'),5);
```

```
select * from expired;
```

```
insert into customer values('ASHISH','ASH','ASHISH  
BHARADWAJ','1111111111','ashish@xyz.com');
```

```
insert into customer values('RICKY','RKY','RICKY  
SAI','2222222222','ricky@xyz.com');
```

```
insert into customer values('BHARADWAJ','BWJ','BHARADWAJ  
RAO','3333333333','bharadwaj@xyz.com');
```

```
insert into customer values('JOHN','JOH','JOHN  
JOHN','4444444444','johnjohn@xyz.com');
```

```
select * from customer;
```

```
insert into card values(1000,'ASHISH',123,str_to_date('12-31-  
2025','%m-%d-%Y'),'A','VISA');
```

```
insert into card values(1001,'ASHISH',456,str_to_date('12-31-  
2025','%m-%d-%Y'),'B','RUPAY');
```

```
insert into card values(1002,'RICKY',789,str_to_date('12-31-  
2025','%m-%d-%Y'),'C','MASTER CARD');
```

```
insert into card values(1003,'RICKY',145,str_to_date('12-31-  
2025','%m-%d-%Y'),'D','AMERICAN EXPRESS');
```

```
insert into card values(1004,'JOHN',567,str_to_date('12-31-  
2025','%m-%d-%Y'),'E','RUPAY');
```

```
insert into card values(1005,'BHARADWAJ',123,str_to_date('12-31-  
2025','%m-%d-%Y'),'F','VISA');
```

```
select * from card;
```

```
insert into address values(1,'ASHISH','1-1','A','HYDERABAD',500001);
insert into address values(2,'ASHISH','1-2','B','HYDERABAD',500002);
insert into address values(1,'RICKY','1-3','C','HYDERABAD',500003);
insert into address values(2,'RICKY','1-4','D','HYDERABAD',500004);
insert into address values(1,'BHARADWAJ','1-5','E','HYDERABAD',500005);
insert into address values(1,'JOHN','1-6','F','HYDERABAD',500006);
```

```
select * from address;
```

```
insert into cart values('ASHISH',1,1);
insert into cart values('ASHISH',3,2);
insert into cart values('ASHISH',6,5);
insert into cart values('ASHISH',8,3);
insert into cart values('RICKY',2,1);
insert into cart values('RICKY',4,3);
insert into cart values('RICKY',5,4);
insert into cart values('RICKY',6,2);
insert into cart values('JOHN',2,1);
insert into cart values('JOHN',7,4);
insert into cart values('BHARADWAJ',3,3);
insert into cart values('BHARADWAJ',5,1);
```

```
select * from cart;
```

```
insert into delivery_service
values(1,'INDIAPOST','indiapost@indiapost.gov.in');
insert into delivery_service values(2,'BLUE DART','bluedart@bluedart.com');
insert into delivery_service values(3,'FEDEX','fedex@fedex.com');
insert into delivery_service values(4,'DHL','dhl@dhl.com');
```

```
select * from delivery_service;
```

```

insert into order_ values(1,str_to_date('12-31-2022','%m-%d-%Y'),'SUCCESS',1,'ASHISH',22098,25100,3004,1,1,1,'DELIVERED');
insert into order_ values(2,str_to_date('5-02-2023','%m-%d-%Y'),'SUCCESS',2,'ASHISH',268,280,12,2,2,2,'DELIVERED');
insert into order_ values(3,str_to_date('5-05-2023','%m-%d-%Y'),'SUCCESS',2,'RICKY',531,554,23,1,3,3,'DELIVERED');
insert into order_ values(4,str_to_date('5-09-2023','%m-%d-%Y'),'SUCCESS',3,'RICKY',500,525,25,2,4,4,'DELIVERED');
insert into order_ values(5,str_to_date('5-11-2023','%m-%d-%Y'),'SUCCESS',3,'JOHN',18000,20000,2000,1,1,5,'DELIVERED');
insert into order_ values(6,str_to_date('5-16-2023','%m-%d-%Y'),'SUCCESS',3,'BHARADWAJ',90,99,9,1,2,6,'DELIVERED');
insert into order_ values(7,str_to_date('5-19-2023','%m-%d-%Y'),'SUCCESS',1,'BHARADWAJ',1500,200,500,1,3,7,'DELIVERED');
insert into order_ values(8,str_to_date('5-22-2023','%m-%d-%Y'),'NO STOCK',null,'ASHISH',22148,25155,3007,1,null,null,null);
insert into order_ values(9,str_to_date('5-25-2023','%m-%d-%Y'),'NO STOCK',null,'RICKY',22136,25142,3006,2,null,null,null);
insert into order_ values(10,str_to_date('5-31-2023','%m-%d-%Y'),'PAYMENT FAILED',null,'JOHN',18000,20000,2000,1,null,null,null);

```

```

select * from order_;
insert into order_item values(7,5,3);
insert into order_item values(8,1,1);
insert into order_item values(1,1,1);
insert into order_item values(1,3,2);
insert into order_item values(2,4,4);
insert into order_item values(3,3,1);
insert into order_item values(3,7,3);
insert into order_item values(4,8,5);
insert into order_item values(5,2,1);
insert into order_item values(6,6,3);
insert into order_item values(8,3,1);
insert into order_item values(8,8,1);
insert into order_item values(9,1,1);
insert into order_item values(9,4,1);
insert into order_item values(9,7,1);
insert into order_item values(10,2,1);
select * from order_item;

```

```
insert into order_item values(7,5,3);
insert into order_item values(8,1,1);
insert into order_item values(8,3,1);
insert into order_item values(8,8,1);
insert into order_item values(9,1,1);
insert into order_item values(9,4,1);
insert into order_item values(9,7,1);
insert into order_item values(10,2,1);
```

```
select * from order_item;
```

```
insert into payment values(1,'SUCCESS',22098,1000,1);
insert into payment values(2,'SUCCESS',268,1001,2);
insert into payment values(3,'SUCCESS',531,1002,3);
insert into payment values(4,'SUCCESS',500,1003,4);
insert into payment values(5,'SUCCESS',18000,1004,5);
insert into payment values(6,'SUCCESS',90,1005,6);
insert into payment values(7,'SUCCESS',1500,1005,7);
insert into payment values(8,'INSUFFICIENT FUNDS',18000,1004,10);
```


```
select * from payment;
```

# OUTPUT TABLES



## WAREHOUSE :

Result Grid		 Filter Rows:
	w_no	location
▶	1	HYDERABAD
	2	BENGALURU
	3	MUMBAI
*	NULL	NULL

## PRODUCTS :


Result Grid		  Filter Rows:	Edit:   		
	p_no	pname	price	mrp	category
▶	1	IQOO7	25000	29000	ELECTRONICS
	2	IPHONE 14 PRO MAX	130000	139900	ELECTRONICS
	3	FERRERO ROCHER	120	150	FOOD
	4	HERSHEY KISSES	90	140	FOOD
	5	BOAT AIRDOPES	1299	1700	ACCESORIES
	6	MYSORE SANDAL SOAP	50	60	COSMETICS
	7	MAGGI	10	12	GROCERIES
	8	BOOST	100	105	GROCERIES
*	NULL	NULL	NULL	NULL	NULL

## STOCK:



Result Grid			 Filter Rows:	
	p_no	w_no	quantity	exp_date
	2	1	11	NULL
	2	3	6	NULL
	3	1	7	2023-05-20
	3	2	9	2023-06-01
	4	1	11	2023-06-01
	4	2	18	2023-05-30
	5	1	10	2023-05-21
	5	2	10	NULL
	6	2	19	2023-05-11
	6	3	13	2023-06-09
	7	2	11	2023-05-10
	7	3	5	2023-06-05
	8	3	4	2023-06-04
•	NULL	NULL	NULL	NULL

## SUPPLIES :

Result Grid

 Filter Rows:

Edit:



	p_no	w_no	supp_date	quantity	exp_date
	1	3	2021-06-07	11	NULL
	2	1	2021-06-01	11	NULL
	2	3	2021-06-18	1	NULL
	3	1	2021-06-14	9	2023-06-11
	3	2	2021-06-19	10	2023-06-01
	4	1	2021-06-12	11	2023-06-01
	4	2	2021-06-16	22	2023-06-30
	5	1	2021-06-22	13	2023-06-21
	5	2	2021-06-14	10	NULL
	6	2	2021-06-10	19	2023-06-11
	6	3	2021-06-14	7	2023-06-09
	7	2	2021-06-10	14	2023-06-10
	7	3	2021-06-25	16	2023-06-05
	8	3	2021-06-20	9	2022-01-01
	8	3	2021-06-29	5	2023-06-04
*	NULL	NULL	NULL	NULL	NULL

## EXPIRED :

Result Grid					Filter Rows:	
	p_no	w_no	ret_date	quantity		
▶	8	3	2022-01-01	5		
*	NULL	NULL	NULL	NULL		

## CUSTOMER :

Result Grid

Filter Rows:

Edit:

Export/Import:

	username	pass	cname	phno	email
▶	ASHISH	ASH	ASHISH BHARADWAJ	1111111111	ashish@xyz.com
	BHARADWAJ	BWJ	BHARADWAJ RAO	3333333333	bharadwaj@xyz.com
	JOHN	JOH	JOHN JOHN	4444444444	johnjohn@xyz.com
	RICKY	RKY	RICKY SAI	2222222222	ricky@xyz.com
*	NULL	NULL	NULL	NULL	NULL

## CARD :

Result Grid		Filter Rows:		Edit:		Export/Import:
	cno	username	cvv	exp_date	nameoncard	card_type
▶	1000	ASHISH	123	2025-12-31	A	VISA
	1001	ASHISH	456	2025-12-31	B	RUPAY
	1002	RICKY	789	2025-12-31	C	MASTER CARD
	1003	RICKY	145	2025-12-31	D	AMERICAN EXPRESS
	1004	JOHN	567	2025-12-31	E	RUPAY
	1005	BHARADWAJ	123	2025-12-31	F	VISA
*	NULL	NULL	NULL	NULL	NULL	NULL

## ADDRESS :

Result Grid		  Filter Rows:	<input type="text"/>				Edit:	  
	ad_no	username	hno	street	city	pincode		
▶	1	ASHISH	1-1	A	HYDERABAD	500001		
	1	BHARADWAJ	1-5	E	HYDERABAD	500005		
	1	JOHN	1-6	F	HYDERABAD	500006		
	1	RICKY	1-3	C	HYDERABAD	500003		
	2	ASHISH	1-2	B	HYDERABAD	500002		
	2	RICKY	1-4	D	HYDERABAD	500004		
*	NULL	NULL	NULL	NULL	NULL	NULL		

## CART :

Result Grid		Filter Rows:	
	order_id	p_no	quantity
▶	1	1	1
	1	3	2
	2	4	4
	3	3	1
	3	7	3
	4	8	5
	5	2	1
	6	6	3
	7	5	3
	8	1	1
	8	3	1
	8	8	1
	9	1	1
	9	4	1
	9	7	1
	10	2	1



## DELIVERY\_SERVICE :

Result Grid				Filter Rows:	Edit:
	ds_id	ds_name	contact		
▶	1	INDIA POST	indiapost@indiapost.gov.in		
	2	BLUE DART	bluedart@bluedart.com		
	3	FEDEX	fedex@fedex.com		
	4	DHL	dhl@dhl.com		
✱	NULL	NULL	NULL		

## ORDER\_ :

Result Grid												Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	order_id	order_date	order_status	w_no	username	tot_price	gorss_price	discount	ad_no	ds_id	tracking_id	dstatus			
▶	1	2022-12-31	SUCCESS	1	ASHISH	22098	25100	3004	1	1	1	DELIVERED			
	2	2023-05-02	SUCCESS	2	ASHISH	268	280	12	2	2	2	DELIVERED			
	3	2023-05-05	SUCCESS	2	RICKY	531	554	23	1	3	3	DELIVERED			
	4	2023-05-09	SUCCESS	3	RICKY	500	525	25	2	4	4	DELIVERED			
	5	2023-05-11	SUCCESS	3	JOHN	18000	20000	2000	1	1	5	DELIVERED			
	6	2023-05-16	SUCCESS	3	BHARADWAJ	90	99	9	1	2	6	DELIVERED			
	7	2023-05-19	SUCCESS	1	BHARADWAJ	1500	200	500	1	3	7	DELIVERED			
	8	2023-05-22	NO STOCK	NULL	ASHISH	22148	25155	3007	1	NULL	NULL	NULL			
	9	2023-05-25	NO STOCK	NULL	RICKY	22136	25142	3006	2	NULL	NULL	NULL			
	10	2023-05-31	PAYMENT FAILED	NULL	JOHN	18000	20000	2000	1	NULL	NULL	NULL			
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL			

## ORDER\_ITEM :

Result Grid				Filter Rows:
	username	p_no	quantity	
▶	ASHISH	1	1	
	ASHISH	3	2	
	ASHISH	6	5	
	ASHISH	8	3	
	BHARADWAJ	3	3	
	BHARADWAJ	5	1	
	JOHN	2	1	
	JOHN	7	4	
	RICKY	2	1	
	RICKY	4	3	
	RICKY	5	4	
	RICKY	6	2	
✱	NULL	NULL	NULL	

## PAYMENT:

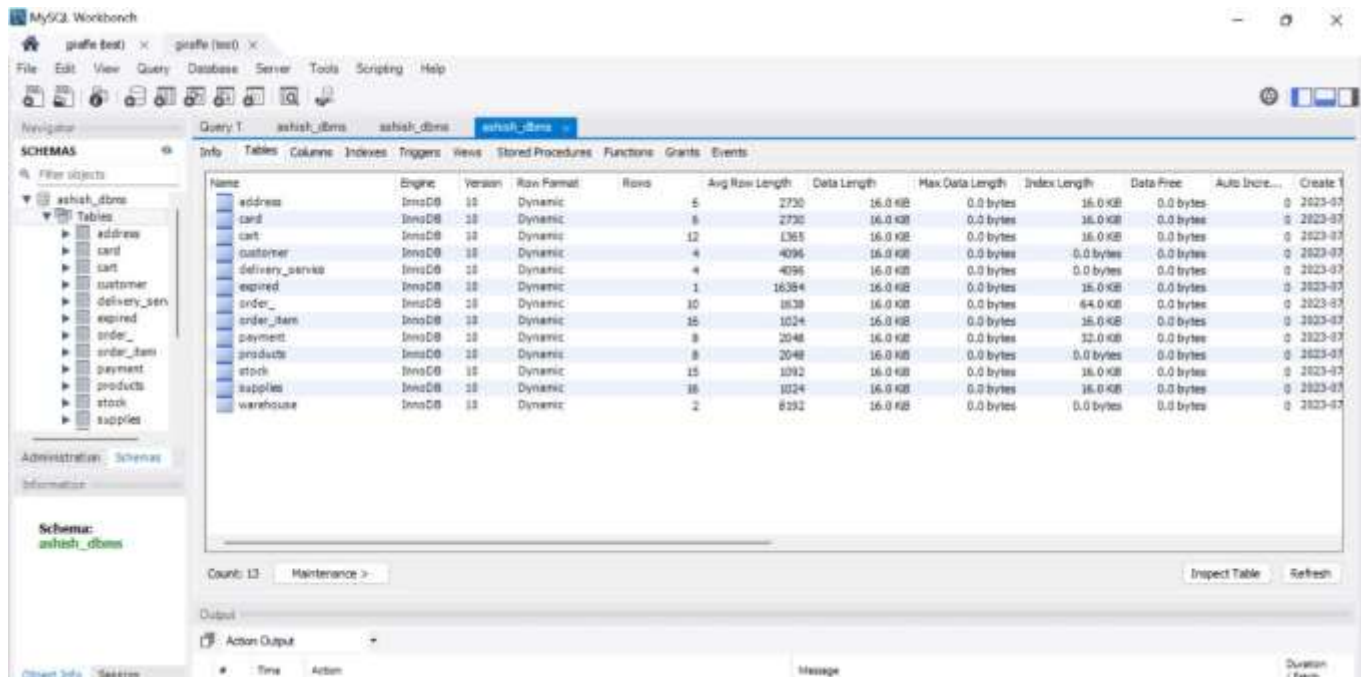
Result Grid					
Filter Rows:					
	payment_id	payment_status	amount	cno	order_id
▶	1	SUCCESS	22098	1000	1
	2	SUCCESS	268	1001	2
	3	SUCCESS	531	1002	3
	4	SUCCESS	500	1003	4
	5	SUCCESS	18000	1004	5
	6	SUCCESS	90	1005	6
	7	SUCCESS	1500	1005	7
	8	INSUFFICIENT FUNDS	18000	1004	10
✱	NULL	NULL	NULL	NULL	NULL

## DATABASE OVERVIEW :

The screenshot displays a database management interface for a schema named 'ashish\_dbms'. The left sidebar shows a tree view of the database structure, including tables like 'address', 'cart', 'customer', 'delivery\_person', 'expired', 'order', 'order\_item', 'payment', 'products', 'stock', and 'supplier'. The main panel shows the 'Schema Details' for 'ashish\_dbms', including the default collation 'utf8mb4\_0900\_ai\_ci', default character set 'utf8mb4', table count '13', and database size '416.8 KB'. The bottom section shows the 'Output' area with a table header for 'Action Output'.

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

## TABLES IN DATABASE :



The screenshot displays the MySQL Workbench interface for the 'ashish\_dbms' database. The left sidebar shows the 'SCHEMAS' tree with 'ashish\_dbms' expanded, listing 13 tables. The main window shows the 'Info' tab for the 'ashish\_dbms' database, displaying a table of database metadata.

Name	Engine	Version	Row Format	Rows	Avg Row Length	Data Length	Max Data Length	Index Length	Data Price	Auto Ince...	Create T...
address	InnoDB	10	Dynamic	5	2730	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
card	InnoDB	10	Dynamic	8	2730	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
cart	InnoDB	10	Dynamic	12	1365	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
customer	InnoDB	10	Dynamic	4	4096	16.0 KB	0.0 bytes	0.0 bytes	0.0 bytes	0	2023-07
delivery_service	InnoDB	10	Dynamic	4	4096	16.0 KB	0.0 bytes	0.0 bytes	0.0 bytes	0	2023-07
expired	InnoDB	10	Dynamic	1	16384	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
order_	InnoDB	10	Dynamic	10	1638	16.0 KB	0.0 bytes	64.0 KB	0.0 bytes	0	2023-07
order_item	InnoDB	10	Dynamic	15	1024	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
payment	InnoDB	10	Dynamic	8	2048	16.0 KB	0.0 bytes	32.0 KB	0.0 bytes	0	2023-07
products	InnoDB	10	Dynamic	8	2048	16.0 KB	0.0 bytes	0.0 bytes	0.0 bytes	0	2023-07
stock	InnoDB	10	Dynamic	15	1092	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
supplies	InnoDB	10	Dynamic	16	1024	16.0 KB	0.0 bytes	16.0 KB	0.0 bytes	0	2023-07
warehouse	InnoDB	10	Dynamic	2	8192	16.0 KB	0.0 bytes	0.0 bytes	0.0 bytes	0	2023-07

---X---

**ASHISH BHARADWAJ T**  
**21EEB0A60**