

# INVENTORY MANAGEMENT SYSTEM

## MYSQL QUERIES

=====

Table 1 =

```
mysql> create table Admin(Admin_id int PRIMARY KEY, U_name varchar(30)
NOT NULL, Pswd varchar(15) NOT NULL);
Query OK, 0 rows affected (0.15 sec)
```

```
mysql> Insert Into Admin (Admin_id, U_name, Pswd )
values(2375,"RiyaS","Riya#22"),(2376,"SakshiT","Sakshi#22"),(2380,"Dny
aneshwariG","Dnyaneshwari#22"),(2382,"AishwaryaP","Aishwarya#22");
Query OK, 4 rows affected (0.14 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> select * from Admin;
+-----+-----+-----+
| Admin_id | U_name      | Pswd      |
+-----+-----+-----+
|      2375 | RiyaS       | Riya#22   |
|      2376 | SakshiT     | Sakshi#22 |
|      2380 | DnyaneshwariG | Dnyaneshwari#22 |
|      2382 | AishwaryaP  | Aishwarya#22 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

=====

Table 2 = Product

```
mysql> Create table Product (Pid int PRIMARY KEY, PName varchar(50)
NOT NULL, Price int NOT NULL, Category varchar(50) NOT NULL, Quantity
int NOT NULL, Admin_id int );
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> Insert into Product values(1,"Lenovo
i7","36000","Laptop","20","2382");
Query OK, 1 row affected (0.05 sec)
```

```
mysql> Alter Table Product Add Constraint fk_Adm foreign key
(Admin_id) references Admin(Admin_id);
Query OK, 1 row affected (0.38 sec)
Records: 1  Duplicates: 0  Warnings: 0
```

```
mysql>
```

```
mysql> Insert into Product values(1,"Lenovo
i7","36000","Laptop","20","2382");
ERROR 1062 (23000): Duplicate entry '1' for key 'product.PRIMARY'
mysql> Insert into Product values(2,"Apple
MacBook","40000","Laptop","35","2380");
Query OK, 1 row affected (0.12 sec)
```

```
mysql> Insert into Product values(3,"Apple
22","80000","Laptop","35","2376");
Query OK, 1 row affected (0.13 sec)=
```

```
mysql> Insert into Product
values(4,"Dell","60000","Laptop","35","2375");
Query OK, 1 row affected (0.12 sec)
```

```
mysql> Insert into Product values(5,"HP intel
i5","50000","Laptop","10","2380");
Query OK, 1 row affected (0.12 sec)
```

```
mysql> select * from Product;
```

PId	PName	Price	Category	Quantity	Admin_id
1	Lenovo i7	36000	Laptop	20	2382
2	Apple MacBook	40000	Laptop	35	2380
3	Apple 22	80000	Laptop	35	2376
4	Dell	60000	Laptop	35	2375
5	HP intel i5	50000	Laptop	10	2380

5 rows in set (0.00 sec)

=====

Table 3 =

```
mysql> create table customer(custId int PRIMARY KEY, custName
varchar(50), addr varchar(50) NOT NULL, phno bigint NOT NULL);
Query OK, 0 rows affected (10.06 sec)
```

```
mysql> insert into customer (custId , custName , addr , phno)
values(1,"Hari","Pune",9845635463),(2,"Sam","Kothrud",8765436452),(3,"
Tom","Pune",9585658745),(4,"Jerry","Nashik",8675647567);
Query OK, 4 rows affected (0.26 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select * from customer;
```

```
+-----+-----+-----+-----+
| custId | custName | addr   | phno   |
+-----+-----+-----+-----+
|      1 | Hari     | Pune   | 9845635463 |
|      2 | Sam      | Kothrud | 8765436452 |
|      3 | Tom      | Pune   | 9585658745 |
|      4 | Jerry    | Nashik | 8675647567 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> alter table transaction modify tid int(10) AUTO_INCREMENT ;
Query OK, 5 rows affected, 1 warning (4.26 sec)
Records: 5 Duplicates: 0 Warnings: 1
```

```
mysql> insert into transaction
values(null,6,"Watch2",2,"2022-05-21",3);
Query OK, 1 row affected (0.27 sec)
```

```
mysql> select * from transaction;
```

```
+-----+-----+-----+-----+-----+-----+
| tid | pid | pname           | quantity | time_date | custId |
+-----+-----+-----+-----+-----+-----+
| 101 | 1   | Lenovo i7       | 50       | 2022-03-03 | 1      |
| 102 | 2   | Apple MacBook   | 2        | 2022-03-05 | 2      |
```

103	3	Apple 22		1	2022-03-06		3
104	4	Dell		1	2022-01-10		1
105	5	HP intel i5		1	2021-12-31		3
106	6	Watch2		2	2022-05-21		3

+-----+-----+-----+-----+-----+-----+

6 rows in set (0.00 sec)

=====

Table 4 =

```
mysql> create table transaction (tid int PRIMARY KEY, pid int NOT
NULL, pname varchar(50) NOT NULL, quantity int NOT NULL, time_date
Date NOT NULL);
Query OK, 0 rows affected (1.74 sec)
```

```
mysql> alter table transaction add column custId int ;
Query OK, 0 rows affected (1.74 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table transaction add constraint fk_cust foreign key
(custId) references customer(custId);
Query OK, 0 rows affected (4.67 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> insert into transaction (tid , pid , pname , quantity ,
time_date , custId) values(102,2,"Apple MacBook", 2 , "2022-03-05",
2);
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into transaction (tid , pid , pname , quantity ,
time_date , custId) values(103,3,"Apple 22", 1 , "2022-03-06",
3),(104,4,"Dell",1,"2022-01-10",1),(105,5,"HP intel
i5",1,"2021-12-31",3);
Query OK, 3 rows affected (0.16 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from transaction
-> ;
```

+-----+-----+-----+-----+-----+-----+

tid	pid	pname	quantity	time_date	custId
101	1	Lenovo i7	50	2022-03-03	1
102	2	Apple MacBook	2	2022-03-05	2
103	3	Apple 22	1	2022-03-06	3
104	4	Dell	1	2022-01-10	1
105	5	HP intel i5	1	2021-12-31	3

5 rows in set (0.00 sec)

=====

Table 5 =

```
mysql> create table updates (custId int, pid int);
Query OK, 0 rows affected (1.38 sec)
```

```
mysql> alter table updates add constraint fk_cust1 foreign key
(custId) references customer(custId);
Query OK, 0 rows affected (2.86 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table updates add constraint fk_cust2 foreign key (pid)
references Product(Pid);
Query OK, 0 rows affected (3.25 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> insert into updates(custId , pid)
values(1,1) , (2,2) , (3,3) , (4,4);
Query OK, 4 rows affected (0.13 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select * from updates;
```

custId	pid
1	1
2	2
3	3
4	4

4 rows in set (0.00 sec)

## QUERIES

1.Display all the customers whose second letter is 'a'.

```
mysql> select * from customer where custName like "_a%";
```

custId	custName	addr	phno
1	Hari	Pune	9845635463
2	Sam	Kothrud	8765436452
18	Sam	Pune	9878675678
23	Sam2	Pune	7658465789
25	Sam	Pune	7776665558
34	Jack	Pune	7777777777
99	Sam	Pune	8978987889
123	Sam2	Pune	8787878797

8 rows in set (0.03 sec)

2.Display all the products between the price range 100000 and 200000.

```
mysql> select * from Product where Price between 100000 and 200000;
```

PIId	PName	Price	Category	Quantity
10	Samsung Washing Machine	150000	Household	89
13	Whirlpool Refrigerator	200000	Household	80
101	Samsung TV	200000	Television	90

3 rows in set (0.00 sec)

=====

3.Display Date format YYYY-MM-DD.

```
mysql> select date_format(time_date,"%Y%M%D") from transaction;
```

date_format(time_date,"%Y%M%D")
2022May25th
2022May25th
2022May25th
2022May25th
2022May25th
2022May25th
2022May25th
2022May26th
2022May26th
2022June1st

10 rows in set (0.11 sec)

=====

4.Display the customer name in alphabetical order.

```
mysql> select * from customer order by custName;
```

custId	custName	addr	phno
12	Anu	Pune	9988776655
1	Hari	Pune	9845635463
34	Jack	Pune	7777777777
4	Jerry	Nashik	8675647567
111	Purva	Hadapsar	8888888888
2	Sam	Kothrud	8765436452
18	Sam	Pune	9878675678
25	Sam	Pune	7776665558
99	Sam	Pune	8978987889
23	Sam2	Pune	7658465789





```

+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
| 112 | 1 | Lenovo i7 | 2 | 2022-05-25 | 1 |
72000 | 1 | Hari | Pune | 9845635463 |
| 113 | 1 | Lenovo i7 | 3 | 2022-05-25 | 1 |
108000 | 1 | Hari | Pune | 9845635463 |
| 114 | 1 | Lenovo i7 | 4 | 2022-05-25 | 1 |
144000 | 1 | Hari | Pune | 9845635463 |
| 115 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 | 1 | Hari | Pune | 9845635463 |
| 116 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 | 1 | Hari | Pune | 9845635463 |
| 117 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 | 1 | Hari | Pune | 9845635463 |
| 118 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 | 1 | Hari | Pune | 9845635463 |
| 119 | 2 | Apple MacBook | 3 | 2022-05-26 | 1 |
120000 | 1 | Hari | Pune | 9845635463 |
| 120 | 3 | Apple 22 | 5 | 2022-05-26 | 3 |
400000 | 3 | Tom | Pune | 9585658745 |
| 123 | 1 | Lenovo i7 | 1 | 2022-06-01 | 2 |
36000 | 2 | Sam | Kothrud | 8765436452 |
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

```

=====

7. Use LEFT Outer join to join Customer and Transaction tables

```
mysql> Select * from transaction left outer join customer on
transaction.custId=customer.custId;
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
| tid | pid | pname          | quantity | time_date | custId |
Total_price | custId | custName | addr    | phno      |
+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
| 112 | 1 | Lenovo i7 | 2 | 2022-05-25 | 1 |
72000 | 1 | Hari | Pune | 9845635463 |
| 113 | 1 | Lenovo i7 | 3 | 2022-05-25 | 1 |
108000 | 1 | Hari | Pune | 9845635463 |

```

114	1	Lenovo i7		4	2022-05-25	1
144000		1	Hari	Pune	9845635463	
115	1	Lenovo i7		1	2022-05-25	1
36000		1	Hari	Pune	9845635463	
116	1	Lenovo i7		1	2022-05-25	1
36000		1	Hari	Pune	9845635463	
117	1	Lenovo i7		1	2022-05-25	1
36000		1	Hari	Pune	9845635463	
118	1	Lenovo i7		1	2022-05-25	1
36000		1	Hari	Pune	9845635463	
119	2	Apple MacBook		3	2022-05-26	1
120000		1	Hari	Pune	9845635463	
120	3	Apple 22		5	2022-05-26	3
400000		3	Tom	Pune	9585658745	
123	1	Lenovo i7		1	2022-06-01	2
36000		2	Sam	Kothrud	8765436452	

-----  
-----+-----+-----+-----+-----+-----+-----  
10 rows in set (0.00 sec)

=====

8. Use RIGHT Outer join to join Customer and Transaction tables

```
mysql> Select * from transaction right outer join customer on
transaction.custId=customer.custId;
```

tid	pid	pname	quantity	time_date	custId
Total_price	custId	custName	addr	phno	
112	1	Lenovo i7	2	2022-05-25	1
72000		1	Hari	Pune	9845635463
113	1	Lenovo i7	3	2022-05-25	1
108000		1	Hari	Pune	9845635463
114	1	Lenovo i7	4	2022-05-25	1
144000		1	Hari	Pune	9845635463
115	1	Lenovo i7	1	2022-05-25	1
36000		1	Hari	Pune	9845635463
116	1	Lenovo i7	1	2022-05-25	1
36000		1	Hari	Pune	9845635463

117	1	Lenovo i7		1	2022-05-25	1
36000	1	Hari	Pune	9845635463		
118	1	Lenovo i7		1	2022-05-25	1
36000	1	Hari	Pune	9845635463		
119	2	Apple MacBook		3	2022-05-26	1
120000	1	Hari	Pune	9845635463		
123	1	Lenovo i7		1	2022-06-01	2
36000	2	Sam	Kothrud	8765436452		
120	3	Apple 22		5	2022-05-26	3
400000	3	Tom	Pune	9585658745		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	4	Jerry	Nashik	8675647567		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	12	Anu	Pune	9988776655		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	18	Sam	Pune	9878675678		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	22	Tom	Kothrud	7677767678		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	23	Sam2	Pune	7658465789		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	25	Sam	Pune	7776665558		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	34	Jack	Pune	7777777777		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	99	Sam	Pune	8978987889		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	111	Purva	Hadapsar	8888888888		
NULL	NULL	NULL		NULL	NULL	NULL
NULL	123	Sam2	Pune	8787878797		

```

+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+
20 rows in set (0.02 sec)

```

=====

## 9.Display Transaction done by Hari

```
mysql> select * from transaction where custId in (select custId from
customer where custName="Hari");
```

```

+-----+-----+-----+-----+-----+-----+-----+
-----+

```

tid	pid	pname	quantity	time_date	custId	Total_price
112	1	Lenovo i7	2	2022-05-25	1	72000
113	1	Lenovo i7	3	2022-05-25	1	108000
114	1	Lenovo i7	4	2022-05-25	1	144000
115	1	Lenovo i7	1	2022-05-25	1	36000
116	1	Lenovo i7	1	2022-05-25	1	36000
117	1	Lenovo i7	1	2022-05-25	1	36000
118	1	Lenovo i7	1	2022-05-25	1	36000
119	2	Apple MacBook	3	2022-05-26	1	120000

8 rows in set (0.00 sec)

## 10. Create view

```
mysql> create view view1 as select tid from transaction;
Query OK, 0 rows affected (1.00 sec)
```

```
mysql> select * from transaction;
```

tid	pid	pname	quantity	time_date	custId	Total_price
112	1	Lenovo i7	2	2022-05-25	1	72000
113	1	Lenovo i7	3	2022-05-25	1	108000

```
| 114 | 1 | Lenovo i7 | 4 | 2022-05-25 | 1 |
144000 |
| 115 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 |
| 116 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 |
| 117 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 |
| 118 | 1 | Lenovo i7 | 1 | 2022-05-25 | 1 |
36000 |
| 119 | 2 | Apple MacBook | 3 | 2022-05-26 | 1 |
120000 |
| 120 | 3 | Apple 22 | 5 | 2022-05-26 | 3 |
400000 |
| 123 | 1 | Lenovo i7 | 1 | 2022-06-01 | 2 |
36000 |
+-----+-----+-----+-----+-----+-----+
-----+
10 rows in set (0.11 sec)
```

PIId	PName	Price	Category	Quantity
Admin_id				
1	Lenovo i7	36000	Laptop	8
2	Apple MacBook	40000	Laptop	22
3	Apple 22	80000	Laptop	33

2375	4	Dell		60000	Laptop		33	
2380	5	HP intel i5		50000	Laptop		33	
2382	6	SmartWatch		2999	Watch		33	
2376	7	Titan		5000	Watch		19	
2382	8	SmartWatch2		1500	Watch		33	
2376	9	Allen solly		7500	Watch		5	
2376	10	Samsung Washing Machine		150000	Household		89	
2376	11	Whirlpool Washing Machine		90000	Household		50	
2376	12	LG Microwave		69000	Household		45	
2376	13	Whirlpool Refrigerator		200000	Household		80	
2376	14	Motorola A5		30000	Smart Phone		23	
2382	23	Camera 255		3999	Camera		7	
2375	24	iPhone		50000	Mobile		45	
2376	25	DSLR Camera		22000	Camera		83	
2376	26	Apple TV		400000	Television		99	
2376	43	Canon Camera		65000	Camera		32	
2376	45	Samsung A52		28000	Smart Phone		90	
2376	48	OnePlus TV		60000	Television		80	
2376	71	LG TV		40000	Television		60	
2376	78	Vivo V20		20000	Smart Phone		67	
2376	79	Sony Camera		70000	Camera		23	

89	Redmi Note 6	15000	Smart Phone	45
90	Bajaj Oven	56000	Household	12
91	Oppo A21	30000	Smart Phone	35
92	LG Series Camera	6590	Camera	23
100	W series Camera	90000	Camera	78
101	Samsung TV	200000	Television	90

30 rows in set (0.00 sec)

12. Write a procedure to update the Price to 10050

```
mysql> DELIMITER $$
mysql> Create Procedure update_price(pid int,pname varchar(30))
-> begin
-> update Product set Price=10050 where PId=pid and PName=pname;
-> end $$
Query OK, 0 rows affected (0.26 sec)
```

13. Trigger to convert product name to uppercase before inserting a new record in transaction table.

```
mysql> delimiter //
mysql> create trigger tr11
-> before insert on transaction
-> for each row
-> begin
-> set new.PName=upper(new.PName);
-> end//
```

Query OK, 0 rows affected (0.88 sec)

=====