

## 1. Create a Inventory Management System for a small shop.

### Create a database named InventoryDB

The screenshot shows the MySQL Workbench interface. In the central SQL editor pane, the following SQL code is written:

```
1 • create database InventoryDB;
2
3 • use InventoryDB;
4
5 • ⚡ create table products(
6     product_id int primary key auto_increment,
7     product_name varchar(20),
8     category varchar(20),
9     price int,
10    stock_quantity int
11 );
12
13 • ⚡ create table customers(
14     customers_id int primary key auto_increment,
15     customers_name varchar(20),
16     mobile int,
17     city varchar(20)
```

The 'Schemas' tree on the left shows the '9sepdB' schema containing the 'InventoryDB' database. The 'Tables' node under 'InventoryDB' lists 'products' and 'customers'. The status bar at the bottom right indicates the date as 21-12-2025 and the time as 23:32.

## 2. Switch to this database.

The screenshot shows the MySQL Workbench interface. The 'use InventoryDB;' command from the previous screenshot is now highlighted in blue. The status bar at the bottom right indicates the date as 21-12-2025 and the time as 23:33.

## 3. Create Two Tables

## 1. products

### Fields:

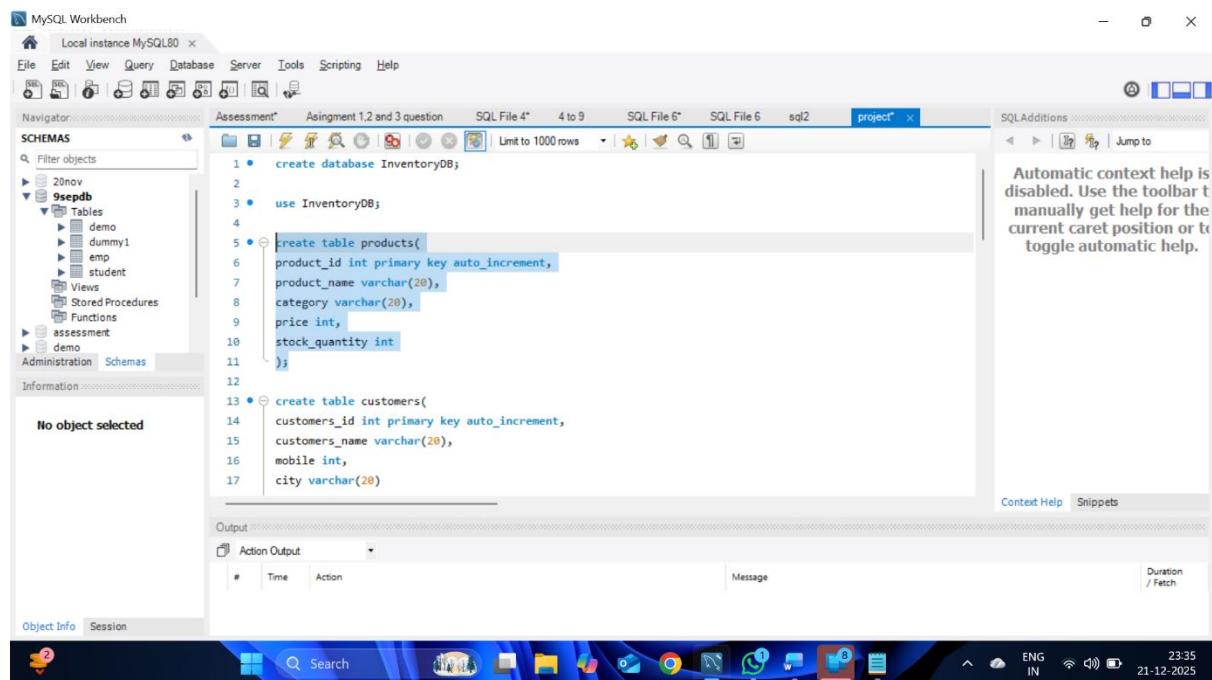
-> **product\_id** → (Primary key, Auto Increment)

-> **product\_name**

-> **category**

-> **price**

-> **stock\_quantity**



The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is `0sepdb`, which contains tables like `demo`, `dummy1`, `emp`, and `student`.
- SQL Editor:** The code area displays the creation of two tables:

```
1 • create database InventoryDB;
2
3 • use InventoryDB;
4
5 • create table products(
6     product_id int primary key auto_increment,
7     product_name varchar(20),
8     category varchar(20),
9     price int,
10    stock_quantity int
11 );
12
13 • create table customers(
14     customers_id int primary key auto_increment,
15     customers_name varchar(20),
16     mobile int,
17     city varchar(20)
```
- Output:** The output pane is currently set to "Action Output".
- System Bar:** Shows the date and time as 21-12-2025 and 23:35.

## 2. customers

### Fields:

-> **customer\_id** → (Primary key, Auto Increment)

-> customer\_name

-> mobile

-> city

The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema with a table named 'customers' under the '9sepdb' database. The main window contains the following SQL code:

```
9    price int,
10   stock_quantity int
11 );
12
13 • create table customers(
14   customers_id int primary key auto_increment,
15   customers_name varchar(20),
16   mobile int,
17   city varchar(20)
18 );
19
20 • insert into products(product_name,category,price,stock_quantity) values('Ac','electronics',40000,5),
21   ('Fan','electronics',5000,10),
22   ('Milk','grocery',100,6),
23   ('shirt','cloths',3000,3),
24   ('sofa','furniture',20000,2);
25
```

The status bar at the bottom right shows the date and time: 21-12-2025, 23:36.

## 4 . Insert Records

### Products Table

Insert minimum 5 products

(Example categories: Electronics, Grocery, Clothing — students choose)

```

MySQL Workbench - Local instance MySQL80 x
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas Assessment* Assignment 1.2 and 3 question SQL File 4* 4 to 9 SQL File 6* SQL File 6 sql2 project* SQLAdditions
SCHEMAS Filter objects 20nov 0sepdb demo dummy1 emp student Views Stored Procedures Functions assessment demo Administration Schemas
Information: No object selected
Object Info Session
Assessment* Assignment 1.2 and 3 question SQL File 4* 4 to 9 SQL File 6* SQL File 6 sql2 project* SQLAdditions
15 customers_name varchar(20),
16 mobile int,
17 city varchar(20)
18 );
19
20 • insert into products(product_name,category,price,stock_quantity) values('Ac','electronics',40000,5),
21 ('Fan','electronics',5000,10),
22 ('Milk','grocery',100,6),
23 ('shirt','cloths',3000,3),
24 ('sofa','furniture',20000,2);
25
26 • insert into customers(customers_name,mobile,city) values('utsav',832011005,'keshod'),
27 ('monak',123344556,'ahmedabad'),
28 ('darpan',123456789,'junagadh'),
29 ('het',234567891,'ahmedabad'),
30 ('deep',987654321,'goa');
31
Output: Action Output # Time Action Message Duration / Fetch
Object Info Session
23:40 ENG IN 21-12-2025

```

## Output :-

```

MySQL Workbench - Local instance MySQL80 x
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas Assessment* Assignment 1.2 and 3 question SQL File 4* 4 to 9 SQL File 6* SQL File 6 sql2 SQL File 9* SQLAdditions
SCHEMAS Filter objects 20nov 0sepdb demo dummy1 emp student Views Stored Procedures Functions assessment demo Administration Schemas
Information: No object selected
Object Info Session
Assessment* Assignment 1.2 and 3 question SQL File 4* 4 to 9 SQL File 6* SQL File 6 sql2 SQL File 9* SQLAdditions
24 ('sofa','furniture',20000,2);
25
26 • insert into customers(customers_name,mobile,city) values('utsav',832011005,'keshod'),
27 ('monak',123344556,'ahmedabad'),
28 ('darpan',123456789,'junagadh'),
29 ('het',234567891,'ahmedabad'),
30 ('deep',987654321,'goa');
31
32 • select * from products;
Result Grid: Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid
products 1 x
product_id product_name category price stock_quantity
1 Ac electronics 40000 5
2 Fan electronics 5000 10
3 Milk grocery 100 6
4 shirt cloths 3000 3
5 sofa furniture 20000 2
products 1 x
Output: Action Output # Time Action Message Duration / Fetch
Object Info Session
Query Completed
00:37:05 8 insert into customers(customers_name,mobile,city) values('utsav',832011005,'keshod') 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0 0.000 sec
00:38:11 9 select * from products LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
00:38:11 20-12-2025

```

## 5 . Customers Table

### Insert minimum 5 customers

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS: 20nov, ssepd, assessment, demo

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

```

25
26 • insert into customers(customers_name,mobile,city) values('utsav',832011005,'keshod'),
27 ('monak',1223344556,'ahmedabad'),
28 ('darpan',1234567899,'junagadh'),
29 ('het',234567891,'ahmedabad'),
30 ('deep',987654321,'goa');

32 • select * from products;
33 • select * from customers;

```

Result Grid: customers

customers_id	customers_name	mobile	city
6	utsav	832011005	keshod
7	monak	1223344556	ahmedabad
8	darpan	1234567899	junagadh
9	het	234567891	ahmedabad
10	deep	987654321	goa

Action Output:

#	Time	Action	Message	Duration / Fetch
9	00:38:11	select * from products LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
10	00:39:18	select * from customers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Query Completed

## 6 . Show products only from category “Electronics”

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS: 20nov, ssepd, assessment, demo

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

```

27 ('monak',1223344556,'ahmedabad'),
28 ('darpan',1234567899,'junagadh'),
29 ('het',234567891,'ahmedabad'),
30 ('deep',987654321,'goa');

32 • select * from products;
33 • select * from customers;
34 • select * from products where category='electronics';

```

Result Grid: products

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	40000	5
2	Fan	electronics	5000	10
3	HULL	HULL	HULL	HULL

Action Output:

#	Time	Action	Message	Duration / Fetch
11	00:40:44	select * from students where category='electronics' LIMIT 0, 1000	Error Code: 1146. Table 'inventorydb.students' doesn't exist	0.000 sec
12	00:41:40	select * from products where category='electronics' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session Query Completed

## 7 . Show customers from a specific city

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 sq2 SQL File 9\* x

29 ('net',234567891,'ahmedabad'),  
30 ('deep',987654321,'goa')  
31  
32 • select \* from products;  
33 • select \* from customers;  
34  
35 • select \* from products where category="electronics";  
36  
37 • select \* from customers where city="ahmedabad";

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

customers_id	customers_name	mobile	city
7	monak	1223344556	ahmedabad
9	het	234567891	ahmedabad
HULL	HULL	HULL	HULL

customers 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	00:41:40	select * from products where category="electronics" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
13	00:43:31	select * from customers where city="ahmedabad" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

JPY/INR -2.03% 00:43 ENG IN 20-12-2025

## 8 . Show products whose price is greater than 5000

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 sq2 SQL File 9\* x

31  
32 • select \* from products;  
33 • select \* from customers;  
34  
35 • select \* from products where category="electronics";  
36  
37 • select \* from customers where city="ahmedabad";  
38  
39 • select \* from products where price > 5000;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	40000	5
5	sofa	furniture	20000	2
HULL	HULL	HULL	HULL	HULL

products 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
13	00:43:31	select * from customers where city="ahmedabad" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
14	00:44:55	select * from products where price > 5000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

Watchlist Ideas 00:45 ENG IN 20-12-2025

## 9 . Show products whose stock is less than 10

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL Additions Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

33 • select * from customers;
34
35 • select * from products where category="electronics";
36
37 • select * from customers where city="ahmedabad";
38
39 • select * from products where price > 5000;
40
41 • select * from products where stock_quantity<10;

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	40000	5
3	Milk	grocery	100	6
4	shirt	cloths	3000	3
5	sofa	furniture	20000	2
■	■	■	■	■

products 6 x

Action Output

#	Time	Action	Message	Duration / Fetch
14	00:44:55	select * from products where price > 5000 LIMIT 0, 1000	2 row(s) returned	0.016 sec / 0.000 sec
15	00:45:51	select * from products where stock_quantity<10 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

8 Air: Moderate Today

Search

ENG IN 00:45 20-12-2025

## 10. Change price of any one product

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL Additions Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

39 • select * from products where price > 5000;
40
41 • select * from products where stock_quantity<10;
42
43 • update products
44 set price = 50000
45 where product_id = 1;
46
47 • select * from products;

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	50000	5
2	Fan	electronics	5000	10
3	Milk	grocery	100	6
4	shirt	cloths	3000	3
5	sofa	furniture	20000	2
■	■	■	■	■

products 7 x

Action Output

#	Time	Action	Message	Duration / Fetch
17	00:49:56	update products set price = 50000 where product_id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
18	00:50:22	select * from products LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

9 18°C Clear

Search

ENG IN 00:50 20-12-2025

## 11 . Change stock of any product

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL File 9\*

45 where product\_id = 1;

46

47 • select \* from products;

48

49 • update products

50 set stock\_quantity=20

51 where product\_id = 2;

52

53 • select \* from products;

Result Grid

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	50000	5
2	Fan	electronics	5000	20
3	Milk	grocery	100	6
4	shirt	clothes	3000	3
5	sofa	furniture	20000	2

Action Output

#	Time	Action	Message	Duration / Fetch
19	00:51:49	update products set stock_quantity=20 where product_id = 2;	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
20	00:52:04	select * from products LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

18°C Clear

Search

ENG IN 00:52 20-12-2025

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## 12 . Update customer city

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL File 9\*

51 where product\_id = 2;

52

53 • select \* from products;

54

55 • update customers

56 set city = "rajkot"

57 where customers\_id= 6;

58

59 • select \* from customers;

Result Grid

customers_id	customers_name	mobile	city
6	utsav	832011005	rajkot
7	monak	1223344556	ahmedabad
8	darpan	123456789	junagadh
9	het	234567891	ahmedabad
10	deep	987654321	goa

Action Output

#	Time	Action	Message	Duration / Fetch
24	00:58:31	update customers set city = "rajkot" where customers_id= 6;	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
25	00:58:34	select * from customers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

CAD/INR -0.83%

Search

ENG IN 00:58 20-12-2025

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## 13. Update customer mobile number

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

57 where customers_id= 6;
58
59 • select * from customers;
60
61 • update customers
62 set mobile = 123456124
63 where customers_id=7;
64
65 • select * from customers;

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Context Help | Snippets

customers_id	customers_name	mobile	city
6	utsav	832011005	rajkot
7	monak	123456124	ahmedabad
8	darpan	123456789	jungadh
9	het	234567891	ahmedabad
10	deep	987654321	goa

customers 11 | Apply | Revert |

Action Output

#	Time	Action	Message	Duration / Fetch
26	01:00:21	update customers set mobile = 123456124 where customers_id=7	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
27	01:00:37	select * from customers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

EUR/INR -0.80% 01:00 ENG IN 20-12-2025

## 14. Delete One product

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 SQL File 9\*

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

60
61 • update customers
62 set mobile = 123456124
63 where customers_id=7;
64
65 • select * from customers;
66
67 • delete from products where product_id = 3;
68 • select * from products;

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Context Help | Snippets

product_id	product_name	category	price	stock_quantity
1	Ac	electronics	50000	5
2	Fan	electronics	5000	20
4	shirt	cloths	3000	3
5	sofa	furniture	20000	2

products 12 | Apply | Revert |

Action Output

#	Time	Action	Message	Duration / Fetch
28	01:03:08	delete from products where product_id = 3	1 row(s) affected	0.016 sec
29	01:03:23	select * from products LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

Watchlist Ideas 01:03 ENG IN 20-12-2025

## 15. Delete One customer

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 sql2 SQL File 9\*

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

63 where customers_id=7;
64
65 • select * from customers;
66
67 • delete from products where product_id = 3;
68 • select * from products;
69
70 • delete from customers where customers_id = 8;
71 • select * from customers;

```

Result Grid

customers_id	customers_name	mobile	city
6	utsav	832011005	rajkot
7	monak	123456124	ahmedabad
9	het	234567891	ahmedabad
10	deep	987654321	goa
•	NULL	NULL	NULL

customers 13 x

Action Output

#	Time	Action	Message	Duration / Fetch
30	01:04:07	delete from customers where customers_id = 8	1 row(s) affected	0.015 sec
31	01:04:20	select * from customers LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

Watchlist Ideas

ENG IN 01:04 20-12-2025

## 16. Delete all products from a specific category (example: Grocery)

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Assessment\* Assignment 1.2 and 3 question SQL File 4\* 4 to 9 SQL File 6\* SQL File 6 sql2 SQL File 9\*

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

66
67 • delete from products where product_id = 3;
68 • select * from products;
69
70 • delete from customers where customers_id = 8;
71 • select * from customers;
72
73 • truncate table products;
74 • select * from products;

```

Result Grid

product_id	product_name	category	price	stock_quantity
•	NULL	NULL	NULL	NULL

products 14 x

Action Output

#	Time	Action	Message	Duration / Fetch
32	01:06:26	truncate table products	0 row(s) affected	0.031 sec
33	01:06:41	select * from products LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec

No object selected

Object Info Session

Query Completed

19°C Clear ENG IN 01:06 20-12-2025