



A CASE STUDY ON



lenskart.com

Done By : Ankita More
Guided By : Rasika Mam

Create database

```
MariaDB [(none)]> create database lenscart;  
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [(none)]> show databases;
```

Database
batch1to3
company
information_schema
join_operations
lenscart
mysql
performance_schema
phpmyadmin
tables
test
vehicle

```
11 rows in set (0.001 sec)
```

```
MariaDB [(none)]> use lenscart;  
Database changed
```

Query : create database lenscart;

Create a table

```
MariaDB [lenscart]> create table My_Glasses(Glass_Types varchar(40),Frame_Shape varchar(40),Frame_Color varchar(40),Brands varchar(40),Frame_Size varchar(40),Gender varchar(40),Price varchar(40));
Query OK, 0 rows affected (0.338 sec)
```

```
MariaDB [lenscart]> desc My_Glasses;
```

Field	Type	Null	Key	Default	Extra
Glass_Types	varchar(40)	YES		NULL	
Frame_Shape	varchar(40)	YES		NULL	
Frame_Color	varchar(40)	YES		NULL	
Brands	varchar(40)	YES		NULL	
Frame_Size	varchar(40)	YES		NULL	
Gender	varchar(40)	YES		NULL	
Price	varchar(40)	YES		NULL	

```
7 rows in set (0.111 sec)
```

Query

To create table: `create table My_Glasses(Glass_Types varchar(40),Frame_Shape varchar(40),Frame_Color varchar(40),Brands varchar(40),Frame_Size varchar(40),Gender varchar(40),Price varchar(40));`

To show table: `desc My_Glasses;`

Table for Information of Lenses

```
MariaDB [lenscart]> insert into My_Glasses values
-> ("Progressive Eyeglasses","Cet Eye","Red","Lenscart Blu","Medium","Men","1500"),
-> ("Sunglasses","Aviator","Tortoise","Jhon Jacobs","Wide","Women","1699"),
-> ("Power Sunglasses","Hexagonal","Maroon","Jhon Jacobs","Wide","Men","2000"),
-> ("Kids Eyeglasses","Rectangle","Transparent","Kid Zania","Narrow","Men","2500"),
-> ("Computer Glasses","Oval","Rose Gold","Lenscart Blu","Narrow","Women","3000"),
-> ("Computer Glasses","Geometric","Black","Hooper","Extra Wide","Men","3499"),
-> ("Reading Eyeglasses","Square","Transparent","Vincent","Medium","Unisex","2000"),
-> ("Progressive Eyeglasses","Square","Pink","Vincent","Medium","Women","3999"),
-> ("Sunglasses","Square","Sky blue","Jhon Jacobs","Narrow","Unisex","4500");
```

```
Query OK, 9 rows affected (0.068 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
MariaDB [lenscart]> select * from My_Glasses;
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price
Eyeglasses	Square	Grey	Vincent	Narrow	Unisex	1300
Computer Glasses	Round	Blue	Hooper	Extra Narrow	Kid	1400
Progressive Eyeglasses	Cet Eye	Red	Lenscart Blu	Medium	Men	1500
Sunglasses	Aviator	Tortoise	Jhon Jacobs	Wide	Women	1699
Power Sunglasses	Hexagonal	Maroon	Jhon Jacobs	Wide	Men	2000
Kids Eyeglasses	Rectangle	Transparent	Kid Zania	Narrow	Men	2500
Computer Glasses	Oval	Rose Gold	Lenscart Blu	Narrow	Women	3000
Computer Glasses	Geometric	Black	Hooper	Extra Wide	Men	3499
Reading Eyeglasses	Square	Transparent	Vincent	Medium	Unisex	2000
Progressive Eyeglasses	Square	Pink	Vincent	Medium	Women	3999
Sunglasses	Square	Sky blue	Jhon Jacobs	Narrow	Unisex	4500




```
11 rows in set (0.001 sec)
```



Query

To insert values: insert into My_Glasses values(.....);


To see all data : select * from My_Glasses;




To see all products


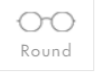







 **lenskart**  **1800-111-111** 

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EYEGLASSES COMPUTER GLASSES KIDS GLASSES CONTACT LENSES SUNGLASSES HOME EYE-TEST & TRIAL STORE LOCATOR **3D TRY ON** **BLU** **GOLD**


FRAME TYPE ALL COMPUTER GLASSES **VIEW FRAMES**  VIEW 3D TRY ON **↑ SORT BY** Best Sellers


FRAME TYPE
 Full Rim  Half Rim  Rimless

FRAME SHAPE
 Rectangle  Round  Cat Eye
 Square  Geometric  Aviator
 Wayfarer  Hexago...  Clubmas...


FRAME COLOR
☐ Black(275) ☐ Blue(109) ☐ Brown(109) ☐ Gold(84) ☐ Grey(62) ☐ Gunmetal(54)


Showing 9 of 974 Results


70% OFF  5607




Lenskart Blu
4.5 ★ 17975 bought
Zero Power
₹1299


Try On 


70% OFF  16036




Lenskart Blu
4.6 ★ 24258 bought
Zero Power
₹1299


Try On 


70% OFF  9192





Lenskart Blu
4.5 ★ 24874 bought
Zero Power
₹1299


Try On 


70% OFF  8042



70% OFF  2741



70% OFF 



Query : select * from My_Glasses;

If you are looking for Unisex Specs below Rs.2000


KIDS GLASSESCONTACT LENSESSUNGLASSESHOME EYE-TEST & TRIALSTORE LOCATOR

UNISEX LENSES BELOW 2000VIEW FRAMESVIEW 3D TRY ON

3D TRY ONBLUGOLD


11 SORT BYBest Sellers

Showing 9 of 11 Results




Vincent Chase VC

₹1199 ₹2000




Lenskart Air

₹1199 ₹2000




Vincent Chase Online

₹999




Lenskart Air LA

₹2000



Lenskart Air

₹1199 ₹2000



Vincent Chase VC

₹1199 ₹2000

```
MariaDB [lenscart]> select * from My_Glasses where Gender="Unisex" and Price<"2000";
+-----+-----+-----+-----+-----+-----+-----+
| Glass_Types | Frame_Shape | Frame_Color | Brands | Frame_Size | Gender | Price |
+-----+-----+-----+-----+-----+-----+-----+
| Eyeglasses | Square      | Grey        | Vincent | Narrow      | Unisex | 1300   |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [lenscart]>
```

Query : select * from My_Glasses where Gender="Unisex" and Price<"2000";

Glasses in range 1000,2000,2500


KIDS GLASSES CONTACT LENSES SUNGLASSES HOME EYE-TEST & TRIAL STORE LOCATOR

GLASSES IN RANGE 1000,2000 AND 2500 VIEW FRAMES ☒ VIEW 3D TRY ON

3D TRY ON BLU GOLD


11 SORT BY Best Sellers

Showing 15 of 1439 Results




Lenskart Blu

₹1699




Lenskart Air

₹1600 ₹3000




Lenskart Air

₹1600 ₹3000




Vincent Chase Online

₹1600



Vincent Chase

₹1600 ₹3000



Vincent Chase

₹2600 ₹3000

Clip-on Glasses
Two functions in one pair

Clip

Eye glasses

Sunglasses

```
MariaDB [lenscart]> select * from My_Glasses where Price in(1000,2000,2500);
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price
Power Sunglasses	Hexagonal	Maroon	Jhon Jacobs	Wide	Men	2000
Kids Eyeglasses	Rectangle	Transparent	Kid Zania	Narrow	Men	2500
Reading Eyeglasses	Square	Transparent	Vincent	Medium	Unisex	2000

3 rows in set (0.001 sec)

Query : select * from My_Glasses where Price in(1000,2000,2500);

If you are searching for Vincent brand

1800-111-111

KIDS GLASSES CO

GLASSES IN RANGE 1

Brand : Vincent Chase x

Vincent Chase

₹1600 ₹3000






Track

V

MATCHING KEYWORDS

- Cooper Vision
- Vincent Chase
- Vincent Chase VC
- Vincent Chase Polarized

PRODUCT RECOMMENDATIONS

	Bausch & Lomb Bausch & Lomb PureVision2 HD contact lenses 6 Lens per Box	₹ 1549
	Vincent Chase Black Rimless Rectangle Vincent Chase SLEEK STEEL VC 5882-C8 Eyeglasses	₹ 1600
	Vincent Chase Polarized Black Grey Full Rim Wayfarer Vincent Chase Polarized MIRAGE VC S12643-C1 Polarized Sunglasses	₹ 1299
	Johnson & Johnson Acuvue Vita Monthly Disposable Contact Lenses 6 lens/Box	₹ 1895
	Vincent Chase	

Vincent C

₹1600

```
MariaDB [lenscart]> select * from My_Glasses where Brands like "V%";
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price
Eyeglasses	Square	Grey	Vincent	Narrow	Unisex	1300
Reading Eyeglasses	Square	Transparent	Vincent	Medium	Unisex	2000
Progressive Eyeglasses	Square	Pink	Vincent	Medium	Women	3999

3 rows in set (0.001 sec)

Query : select * from My_Glasses where Brands like "V"%;

Order by High to Low

```
MariaDB [lenscart]> select * from My_Glasses order by Price desc;
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price
Sunglasses	Square	Sky blue	Jhon Jacobs	Narrow	Unisex	4500
Progressive Eyeglasses	Square	Pink	Vincent	Medium	Women	3999
Computer Glasses	Geometric	Black	Hooper	Extra Wide	Men	3499
Computer Glasses	Oval	Rose Gold	Lenscart Blu	Narrow	Women	3000
Kids Eyeglasses	Rectangle	Transparent	Kid Zania	Narrow	Men	2500
Power Sunglasses	Hexagonal	Maroon	Jhon Jacobs	Wide	Men	2000
Reading Eyeglasses	Square	Transparent	Vincent	Medium	Unisex	2000
Sunglasses	Aviator	Tortoise	Jhon Jacobs	Wide	Women	1699
Progressive Eyeglasses	Cet Eye	Red	Lenscart Blu	Medium	Men	1500
Computer Glasses	Round	Blue	Hooper	Extra Narrow	Kid	1400
Eyeglasses	Square	Grey	Vincent	Narrow	Unisex	1300

11 rows in set (0.001 sec)

Query: select * from My_Glasses order by Price desc;

Can search for narrow sized lenses

- ☐ Rimless(23)
- ☐ Half Rim(13)

FRAME SIZE

- ☒ Narrow(119)
- ☐ Extra Narrow(49)

PRICE

GENDER

BRAND

MATERIAL

FRAME COLOR

WEIGHT GROUP

PRESCRIPTION TYPE

Frame Size : Narrow x | [Reset Filters](#)

₹4000 ₹5000



Light Weight
10-20gm

Ray-Ban

₹5168 ₹6890

Showing 15 of 119 Results

₹2500 ₹4000



John Jacobs JJ

₹4000 ₹5000

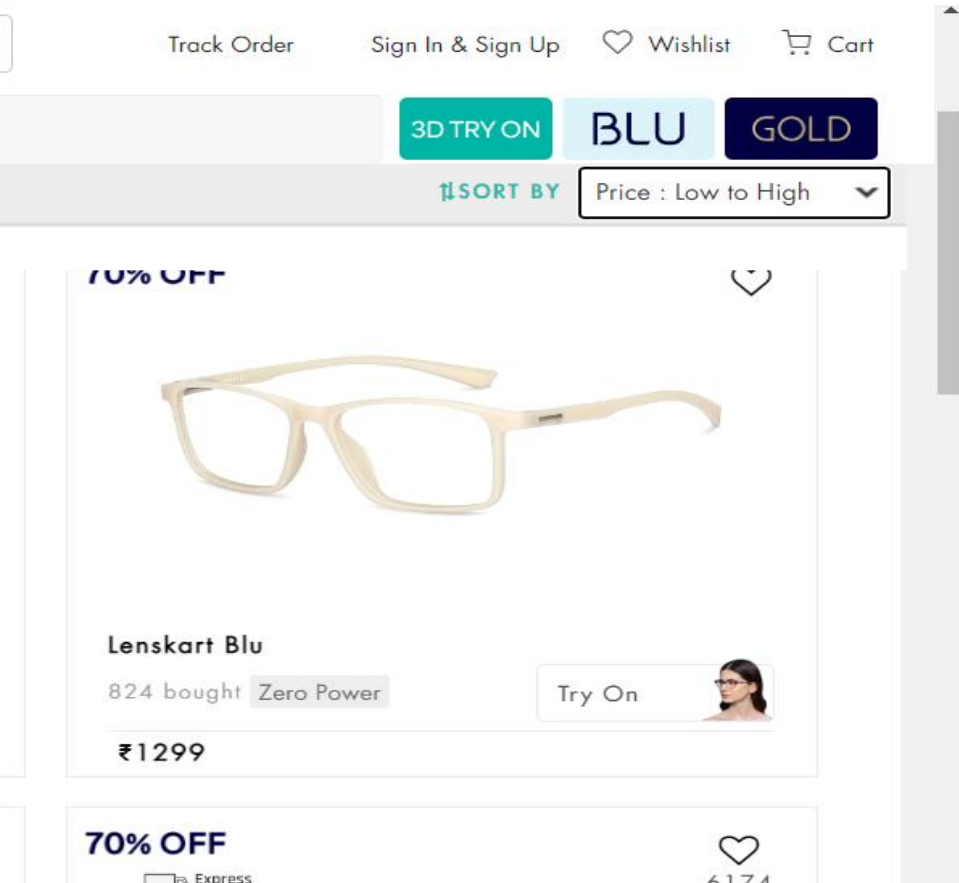
```
MariaDB [lenscart]> select * from Glass_Types where Frame_Size="Narrow";
ERROR 1146 (42S02): Table 'lenscart.glass_types' doesn't exist
MariaDB [lenscart]> select * from My_Glasses where Frame_Size="Narrow";
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price
Eyeglasses	Square	Grey	Vincent	Narrow	Unisex	1300
Kids Eyeglasses	Rectangle	Transparent	Kid Zania	Narrow	Men	2500
Computer Glasses	Oval	Rose Gold	Lenscart Blu	Narrow	Women	3000
Sunglasses	Square	Sky blue	Jhon Jacobs	Narrow	Unisex	4500

4 rows in set (0.001 sec)

Query : select * from My_Glasses where Frame_Size="Narrow";

Apply filter for Low to High price;



```
MariaDB [lenscart]> select lower(Price) from My_Glasses;
+-----+
| lower(Price) |
+-----+
| 1300         |
| 1400         |
| 1500         |
| 1699         |
| 2000         |
| 2500         |
| 3000         |
| 3499         |
| 2000         |
| 3999         |
| 4500         |
+-----+
11 rows in set (0.328 sec)
```

Query: select lower(Price) from My_Classes;

Cross Join of Glass and Frames

```
MariaDB [lenscart]> select * from Glass cross join Frames;
```

ID	Glass_Types	Glass_Color	Supported_Powers	ID	Frame_Material	Weight_Group	Frame_Color
1	Eyeglasses	Grey	Upto Low Power	1	TR90	Light	Red
1	Eyeglasses	Grey	Upto Low Power	2	Stainless Steel	Average	Green
1	Eyeglasses	Grey	Upto Low Power	3	Acetate	Feather Light	Rose Gold
1	Eyeglasses	Grey	Upto Low Power	5	Titanium	Above Average	Transparent
2	Computer Eyeglasses	Green	Upto Medium Power	1	TR90	Light	Red
2	Computer Eyeglasses	Green	Upto Medium Power	2	Stainless Steel	Average	Green
2	Computer Eyeglasses	Green	Upto Medium Power	3	Acetate	Feather Light	Rose Gold
2	Computer Eyeglasses	Green	Upto Medium Power	5	Titanium	Above Average	Transparent
3	Sunglasses	Yellow	Upto High Power	1	TR90	Light	Red
3	Sunglasses	Yellow	Upto High Power	2	Stainless Steel	Average	Green
3	Sunglasses	Yellow	Upto High Power	3	Acetate	Feather Light	Rose Gold
3	Sunglasses	Yellow	Upto High Power	5	Titanium	Above Average	Transparent
4	Sports Eyeglasses	Brown	Upto Very High Power	1	TR90	Light	Red
4	Sports Eyeglasses	Brown	Upto Very High Power	2	Stainless Steel	Average	Green
4	Sports Eyeglasses	Brown	Upto Very High Power	3	Acetate	Feather Light	Rose Gold
4	Sports Eyeglasses	Brown	Upto Very High Power	5	Titanium	Above Average	Transparent
5	Progressive	Transparent	Zero Power	1	TR90	Light	Red
5	Progressive	Transparent	Zero Power	2	Stainless Steel	Average	Green
5	Progressive	Transparent	Zero Power	3	Acetate	Feather Light	Rose Gold
5	Progressive	Transparent	Zero Power	5	Titanium	Above Average	Transparent

20 rows in set (0.001 sec)

Query : select * from Glass cross join Frames;

Inner join query for same color of Glass and Frame

```
MariaDB [lenscart]> select * from Glass inner join Frames on(Glass.Glass_Color=Frames.Frame_Color);
```

ID	Glass_Types	Glass_Color	Supported_Powers	ID	Frame_Material	Weight_Group	Frame_Color
2	Computer Eyeglasses	Green	Upto Medium Power	2	Stainless Steel	Average	Green
5	Progressive	Transparent	Zero Power	5	Titanium	Above Average	Transparent

```
2 rows in set (0.001 sec)
```

```
MariaDB [lenscart]> .
```

Query : select * from Glass inner join Frames
on(Glass.Glass_Color=Frames.Frame_Color

For discount on Lenses



1800-111-111

What are you looking for



Track Order

Sign In & Sign Up

Wishlist

Cart

EYEGLASSES

COMPUTER GLASSES

KIDS GLASSES

CONTACT LENSES

SUNGLASSES

HOME EYE-TEST & TRIAL

STORE LOCATOR

3D TRY ON

BLU

GOLD



Eyeglasses



Sunglasses



Computer Glasses



Contact Lenses



Power Sunglasses



Progressive Lenses

THE
EYE-CONIC
sale

UP TO
70% OFF*

Max styles, Max savings!

Shop Now



*T&C Apply


```
MariaDB [lenscart]> select Glass_Types,Frame_Shape,Frame_Color,Brands,Frame_Size,Gender,Price,Price*70/100 as "70% discount" from My_Glasses;
```

Glass_Types	Frame_Shape	Frame_Color	Brands	Frame_Size	Gender	Price	70% discount
Eyeglasses	Square	Grey	Vincent	Narrow	Unisex	1300	910
Computer Glasses	Round	Blue	Hooper	Extra Narrow	Kid	1400	980
Progressive Eyeglasses	Cet Eye	Red	Lenscart Blu	Medium	Men	1500	1050
Sunglasses	Aviator	Tortoise	Jhon Jacobs	Wide	Women	1699	1189.3
Power Sunglasses	Hexagonal	Maroon	Jhon Jacobs	Wide	Men	2000	1400
Kids Eyeglasses	Rectangle	Transparent	Kid Zania	Narrow	Men	2500	1750
Computer Glasses	Oval	Rose Gold	Lenscart Blu	Narrow	Women	3000	2100
Computer Glasses	Geometric	Black	Hooper	Extra Wide	Men	3499	2449.3
Reading Eyeglasses	Square	Transparent	Vincent	Medium	Unisex	2000	1400
Progressive Eyeglasses	Square	Pink	Vincent	Medium	Women	3999	2799.3
Sunglasses	Square	Sky blue	Jhon Jacobs	Narrow	Unisex	4500	3150

```
11 rows in set (0.001 sec)
```

Query :

```
select Glass_Types,Frame_Shape,Frame_Color,Brands,Frame_Size,Gender,Price,Price*70/100 as  
"70% discount" from My_Glasses;
```

Thank You!!