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## Demonstration of MTS9307 Stage II Standard Version

This is the original web page if starting any operation. The 100 pieces of data are shown in a table. There are three filters for the brand, the colour and the size respectively. The counting functions are properly shown in the User Page form and all of them can be added up to 100.

The screenshot shows the 'User Page' of the 'Sock World' application. On the left, there are three filter sections: 'Brand' with 10 radio buttons (9 selected), 'Colour' with 4 radio buttons (3 selected), and 'Size' with 3 radio buttons (3 selected). Below these is a 'Price Range' section with 'From' and 'To' input fields. The main table, titled 'Sock World', lists 100 items with columns: ItemID, Brand, Colour, Size, Price, and Stock. The items are grouped by brand: H&M (5 items), NIKE (5 items), PUMA (5 items), FILA (7 items), and ZARA (3 items).

| ItemID | Brand | Colour | Size | Price | Stock |
|--------|-------|--------|------|-------|-------|
| HM001  | H&M   | Yellow | M    | 8.00  | 120   |
| HM002  | H&M   | White  | S    | 6.00  | 170   |
| HM004  | H&M   | Black  | L    | 7.00  | 160   |
| HM004  | H&M   | Black  | M    | 7.00  | 200   |
| HM005  | H&M   | White  | L    | 8.00  | 180   |
| NIKE01 | NIKE  | Navy   | L    | 12.00 | 190   |
| NIKE02 | NIKE  | White  | S    | 14.00 | 110   |
| NIKE03 | NIKE  | Navy   | L    | 14.00 | 190   |
| NIKE04 | NIKE  | White  | S    | 13.00 | 220   |
| NIKE05 | NIKE  | Yellow | M    | 19.00 | 230   |
| PUMA01 | PUMA  | Navy   | S    | 11.00 | 250   |
| PUMA02 | PUMA  | White  | L    | 13.00 | 210   |
| PUMA03 | PUMA  | Black  | M    | 9.00  | 290   |
| PUMA04 | PUMA  | White  | S    | 13.00 | 270   |
| PUMA05 | PUMA  | Navy   | M    | 11.00 | 240   |
| FILA01 | FILA  | Yellow | M    | 19.00 | 230   |
| FILA02 | FILA  | Navy   | M    | 9.00  | 250   |
| FILA03 | FILA  | White  | L    | 8.00  | 80    |
| FILA04 | FILA  | Black  | L    | 9.00  | 290   |
| FILA05 | FILA  | White  | S    | 13.00 | 45    |
| FILA06 | FILA  | Navy   | M    | 14.00 | 35    |
| FILA07 | FILA  | Yellow | S    | 15.00 | 20    |
| ZARA01 | ZARA  | Navy   | S    | 2.00  | 50    |
| ZARA02 | ZARA  | White  | L    | 3.00  | 60    |
| ZARA03 | ZARA  | Black  | M    | 19.00 | 70    |

Three screenshots show the single filter function and the counts will automatically change if we tick any one of the options.

This screenshot shows the 'User Page' after selecting the 'KAPPA' brand. The 'Brand' filter section now shows only 'KAPPA' selected. The 'Sock World' table is filtered to show only 9 items of the KAPPA brand. The counts in the filter sections have updated: 'Brand' shows 1 selected, 'Colour' shows 3 selected, and 'Size' shows 3 selected.

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| KAPPA01 | KAPPA | White  | S    | 12.00 | 43    |
| KAPPA02 | KAPPA | Black  | L    | 8.00  | 53    |
| KAPPA03 | KAPPA | Yellow | M    | 7.00  | 63    |
| KAPPA04 | KAPPA | Navy   | S    | 8.00  | 67    |
| KAPPA05 | KAPPA | White  | M    | 7.00  | 79    |
| KAPPA06 | KAPPA | Navy   | L    | 6.00  | 70    |
| KAPPA07 | KAPPA | Yellow | M    | 9.00  | 131   |
| KAPPA08 | KAPPA | White  | S    | 16.00 | 154   |
| KAPPA09 | KAPPA | Navy   | L    | 10.00 | 144   |

[Home](#)
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User Page

Brand

☐ (3) ACICS
 ☐ (4) ANTA
 ☐ (2) FILA
 ☐ (0) H&M
 ☐ (3) KAPPA
 ☐ (3) LOTTO
 ☐ (2) NIKE
 ☐ (2) PUMA
 ☐ (3) UMBRO
 ☐ (2) UNIQLO
 ☐ (3) VANS
 ☐ (4) XTEP
 ☐ (3) ZARA

Colour

☐ (0) Black
 ☒ (34) Navy
 ☐ (0) White
 ☐ (0) Yellow

Size

☐ (10) L
 ☐ (12) M
 ☐ (12) S

Price Range

From:

Min

To:

Max

Confirm

Clear All

## Sock World

| ItemID   | Brand  | Colour | Size | Price | Stock |
|----------|--------|--------|------|-------|-------|
| NIKE01   | NIKE   | Navy   | L    | 12.00 | 190   |
| NIKE03   | NIKE   | Navy   | L    | 14.00 | 190   |
| PUMA01   | PUMA   | Navy   | S    | 11.00 | 250   |
| PUMA05   | PUMA   | Navy   | M    | 11.00 | 240   |
| FILA02   | FILA   | Navy   | M    | 9.00  | 250   |
| FILA06   | FILA   | Navy   | M    | 14.00 | 35    |
| ZARA01   | ZARA   | Navy   | S    | 2.00  | 50    |
| ZARA05   | ZARA   | Navy   | L    | 12.00 | 100   |
| ZARA08   | ZARA   | Navy   | M    | 11.00 | 240   |
| ANTA01   | ANTA   | Navy   | M    | 2.00  | 24    |
| ANTA04   | ANTA   | Navy   | L    | 4.00  | 68    |
| ANTA06   | ANTA   | Navy   | S    | 6.00  | 245   |
| ANTA08   | ANTA   | Navy   | S    | 8.00  | 125   |
| VANS03   | VANS   | Navy   | S    | 13.00 | 77    |
| VANS04   | VANS   | Navy   | M    | 13.00 | 120   |
| VANS06   | VANS   | Navy   | L    | 16.00 | 130   |
| KAPPA04  | KAPPA  | Navy   | S    | 8.00  | 67    |
| KAPPA06  | KAPPA  | Navy   | L    | 6.00  | 70    |
| KAPPA09  | KAPPA  | Navy   | L    | 10.00 | 144   |
| UMBRO02  | UMBRO  | Navy   | S    | 18.00 | 75    |
| UMBRO06  | UMBRO  | Navy   | S    | 5.00  | 94    |
| UMBRO09  | UMBRO  | Navy   | M    | 8.00  | 76    |
| LOTTO04  | LOTTO  | Navy   | S    | 9.00  | 133   |
| LOTTO06  | LOTTO  | Navy   | M    | 5.00  | 126   |
| LOTTO08  | LOTTO  | Navy   | S    | 17.00 | 241   |
| UNIQLO06 | UNIQLO | Navy   | L    | 11.00 | 46    |

[Home](#)
[Admin](#)

User Page

Brand

☐ (4) ACICS
 ☐ (4) ANTA
 ☐ (3) FILA
 ☐ (2) H&M
 ☐ (3) KAPPA
 ☐ (3) LOTTO
 ☐ (1) NIKE
 ☐ (2) PUMA
 ☐ (5) UMBRO
 ☐ (4) UNIQLO
 ☐ (3) VANS
 ☐ (4) XTEP
 ☐ (3) ZARA

Colour

☐ (11) Black
 ☐ (12) Navy
 ☐ (9) White
 ☐ (9) Yellow

Size

☐ (0) L
 ☒ (41) M
 ☐ (0) S

Price Range

From:

Min

To:

Max

Confirm

Clear All

## Sock World

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| HM001   | H&M   | Yellow | M    | 8.00  | 120   |
| HM004   | H&M   | Black  | M    | 7.00  | 200   |
| NIKE05  | NIKE  | Yellow | M    | 19.00 | 230   |
| PUMA03  | PUMA  | Black  | M    | 9.00  | 290   |
| PUMA05  | PUMA  | Navy   | M    | 11.00 | 240   |
| FILA01  | FILA  | Yellow | M    | 19.00 | 230   |
| FILA02  | FILA  | Navy   | M    | 9.00  | 250   |
| FILA06  | FILA  | Navy   | M    | 14.00 | 35    |
| ZARA03  | ZARA  | Black  | M    | 19.00 | 70    |
| ZARA06  | ZARA  | Black  | M    | 9.00  | 90    |
| ZARA08  | ZARA  | Navy   | M    | 11.00 | 240   |
| ANTA01  | ANTA  | Navy   | M    | 2.00  | 24    |
| ANTA03  | ANTA  | Black  | M    | 3.00  | 15    |
| ANTA07  | ANTA  | Black  | M    | 4.00  | 135   |
| ANTA09  | ANTA  | Yellow | M    | 4.00  | 50    |
| VANS02  | VANS  | Black  | M    | 12.00 | 88    |
| VANS04  | VANS  | Navy   | M    | 13.00 | 120   |
| VANS08  | VANS  | Black  | M    | 18.00 | 290   |
| KAPPA03 | KAPPA | Yellow | M    | 7.00  | 63    |
| KAPPA05 | KAPPA | White  | M    | 7.00  | 79    |
| KAPPA07 | KAPPA | Yellow | M    | 9.00  | 131   |
| UMBRO01 | UMBRO | White  | M    | 10.00 | 119   |
| UMBRO03 | UMBRO | White  | M    | 17.00 | 74    |
| UMBRO05 | UMBRO | Yellow | M    | 4.00  | 83    |
| UMBRO07 | UMBRO | White  | M    | 4.00  | 98    |
| UMBRO09 | UMBRO | Navv   | M    | 8.00  | 76    |

The price range can be input as the customers wish.

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User Page

Brand

☐ (2) ACICS
 ☐ (0) ANTA
 ☐ (2) FILA
 ☐ (0) H&M
 ☐ (1) KAPPA
 ☐ (1) LOTTO
 ☐ (1) NIKE
 ☐ (0) PUMA
 ☐ (2) UMBRO
 ☐ (0) UNIQLO
 ☐ (3) VANS
 ☐ (1) XTEP
 ☐ (1) ZARA

Colour

☐ (3) Black
 ☐ (4) Navy
 ☐ (3) White
 ☐ (4) Yellow

Size

☐ (3) L
 ☐ (7) M
 ☐ (4) S

Price Range

From:

15

To:

20

Confirm

Clear All

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| NIKE05  | NIKE  | Yellow | M    | 19.00 | 230   |
| FILA01  | FILA  | Yellow | M    | 19.00 | 230   |
| FILA07  | FILA  | Yellow | S    | 15.00 | 20    |
| ZARA03  | ZARA  | Black  | M    | 19.00 | 70    |
| VANS06  | VANS  | Navy   | L    | 16.00 | 130   |
| VANS07  | VANS  | Yellow | L    | 18.00 | 10    |
| VANS08  | VANS  | Black  | M    | 18.00 | 290   |
| KAPPA08 | KAPPA | White  | S    | 16.00 | 154   |
| UMBRO02 | UMBRO | Navy   | S    | 18.00 | 75    |
| UMBRO03 | UMBRO | White  | M    | 17.00 | 74    |
| LOTTO08 | LOTTO | Navy   | S    | 17.00 | 241   |
| ACICS08 | ACICS | Black  | M    | 15.00 | 28    |
| ACICS09 | ACICS | White  | M    | 17.00 | 24    |
| XTEP06  | XTEP  | Navy   | L    | 15.00 | 82    |

The screenshots below show how the filters can work together. The counts will also be updated automatically.

If we choose any two of them:

HomeAdmin

User Page

Brand

☒ (3) ACICS

☐ (0) ANTA

☐ (0) FILA

☐ (0) H&M

☐ (0) KAPPA

☐ (0) LOTTO

☐ (0) NIKE

☐ (0) PUMA

☐ (0) UMBRO

☐ (0) UNIQLO

☐ (0) VANS

☐ (0) XTEP

☐ (0) ZARA

Colour

☐ (0) Black

☒ (3) Navy

☐ (0) White

☐ (0) Yellow

Size

☐ (1) L

☐ (1) M

☐ (1) S

Price Range

From:

To:

Confirm

Clear All

Sock World

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| ACICS01 | ACICS | Navy   | S    | 11.00 | 211   |
| ACICS05 | ACICS | Navy   | M    | 8.00  | 208   |
| ACICS07 | ACICS | Navy   | L    | 12.00 | 26    |

HomeAdmin

User Page

Brand

☐ (0) ACICS

☐ (1) ANTA

☐ (1) FILA

☐ (1) H&M

☒ (2) KAPPA

☐ (1) LOTTO

☐ (1) NIKE

☐ (0) PUMA

☐ (1) UMBRO

☐ (0) UNIQLO

☐ (0) VANS

☐ (1) XTEP

☐ (0) ZARA

Colour

☐ (0) Black

☐ (0) Navy

☐ (0) White

☒ (0) Yellow

Size

☐ (0) L

☒ (0) M

☐ (0) S

Price Range

From:

To:

Confirm

Clear All

Sock World

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| HM001   | H&M   | Yellow | M    | 8.00  | 120   |
| NIKE05  | NIKE  | Yellow | M    | 19.00 | 230   |
| FILA01  | FILA  | Yellow | M    | 19.00 | 230   |
| ANTA09  | ANTA  | Yellow | M    | 4.00  | 50    |
| KAPPA03 | KAPPA | Yellow | M    | 7.00  | 63    |
| KAPPA07 | KAPPA | Yellow | M    | 9.00  | 131   |
| UMBRO05 | UMBRO | Yellow | M    | 4.00  | 83    |
| LOTTO05 | LOTTO | Yellow | M    | 9.00  | 128   |
| XTEP07  | XTEP  | Yellow | M    | 7.00  | 92    |

HomeAdmin

User Page

Brand

☐ (0) ACICS

☐ (0) ANTA

☐ (0) FILA

☐ (0) H&M

☐ (0) KAPPA

☐ (0) LOTTO

☐ (0) NIKE

☐ (0) PUMA

☐ (0) UMBRO

☐ (0) UNIQLO

☒ (3) VANS

☐ (0) XTEP

☐ (0) ZARA

Colour

☐ (0) Black

☐ (1) Navy

☐ (0) White

☒ (2) Yellow

Size

☒ (3) L

☐ (0) M

☐ (0) S

Price Range

From:

To:

Confirm

Clear All

Sock World

| ItemID | Brand | Colour | Size | Price | Stock |
|--------|-------|--------|------|-------|-------|
| VANS05 | VANS  | Yellow | L    | 12.00 | 200   |
| VANS06 | VANS  | Navy   | L    | 16.00 | 130   |
| VANS07 | VANS  | Yellow | L    | 18.00 | 10    |

If we choose all of the three filters:

HomeAdmin

User Page

Brand

☐ (0) ACICS

☐ (0) ANTA

☐ (0) FILA

☐ (0) H&M

☒ (2) KAPPA

☐ (0) LOTTO

☐ (0) NIKE

☐ (0) PUMA

☐ (0) UMBRO

☐ (0) UNIQLO

☐ (0) VANS

☐ (0) XTEP

☐ (0) ZARA

Colour

☐ (0) Black

☐ (0) Navy

☒ (2) White

☐ (0) Yellow

Size

☐ (0) L

☐ (0) M

☒ (2) S

Price Range

From:

To:

Confirm

Clear All

Sock World

| ItemID  | Brand | Colour | Size | Price | Stock |
|---------|-------|--------|------|-------|-------|
| KAPPA01 | KAPPA | White  | S    | 12.00 | 43    |
| KAPPA08 | KAPPA | White  | S    | 16.00 | 154   |

The price range function can also work with the filters:

[Home](#)
[Admin](#)

User Page

Brand

☐ (0) ACICS  
☐ (0) ANTA  
☐ (1) FILA  
☐ (0) H&M  
☐ (0) KAPPA  
☐ (0) LOTTO  
☐ (0) NIKE  
☐ (1) PUMA  
☐ (0) UMBRO  
☐ (0) UNIQLO  
☐ (1) VANS  
☐ (2) XTEP  
☐ (1) ZARA

Colour

☐ (0) Black  
☒ (6) Navy  
☐ (0) White  
☐ (0) Yellow

Size

☐ (0) L  
☒ (6) M  
☐ (0) S

Price Range

From: 10

To: 15

Confirm

Clear All

Sock World

| ItemID | Brand | Colour | Size | Price | Stock |
|--------|-------|--------|------|-------|-------|
| PUMA05 | PUMA  | Navy   | M    | 11.00 | 240   |
| FILA06 | FILA  | Navy   | M    | 14.00 | 35    |
| ZARA08 | ZARA  | Navy   | M    | 11.00 | 240   |
| VANS04 | VANS  | Navy   | M    | 13.00 | 120   |
| XTEP02 | XTEP  | Navy   | M    | 11.00 | 58    |
| XTEP04 | XTEP  | Navy   | M    | 13.00 | 217   |

To go to the admin page, we need to click “Admin” at the top left corner. After the click, the admin operation facet at the left and the table containing the 100 pieces of data at the right will be the original admin page.

[Home](#)
[Admin](#)

Admin Page

Add Item

ItemID

Brand

Colour

Size

Price

Stock

ADD

Update Item

ItemID

Brand

Colour

Size

Price

Stock

UPDATE

Delete Item

ItemID

DELETE

Sock World

| ItemID | Brand | Colour | Size | Price | Stock |
|--------|-------|--------|------|-------|-------|
| HM001  | H&M   | Yellow | M    | 8.00  | 120   |
| HM002  | H&M   | White  | S    | 6.00  | 170   |
| HM004  | H&M   | Black  | L    | 7.00  | 160   |
| HM004  | H&M   | Black  | M    | 7.00  | 200   |
| HM005  | H&M   | White  | L    | 8.00  | 180   |
| NIKE01 | NIKE  | Navy   | L    | 12.00 | 190   |
| NIKE02 | NIKE  | White  | S    | 14.00 | 110   |
| NIKE03 | NIKE  | Navy   | L    | 14.00 | 190   |
| NIKE04 | NIKE  | White  | S    | 13.00 | 220   |
| NIKE05 | NIKE  | Yellow | M    | 19.00 | 230   |
| PUMA01 | PUMA  | Navy   | S    | 11.00 | 250   |
| PUMA02 | PUMA  | White  | L    | 13.00 | 210   |
| PUMA03 | PUMA  | Black  | M    | 9.00  | 290   |
| PUMA04 | PUMA  | White  | S    | 13.00 | 270   |
| PUMA05 | PUMA  | Navy   | M    | 11.00 | 240   |
| FILA01 | FILA  | Yellow | M    | 19.00 | 230   |
| FILA02 | FILA  | Navy   | M    | 9.00  | 250   |
| FILA03 | FILA  | White  | L    | 8.00  | 80    |
| FILA04 | FILA  | Black  | L    | 9.00  | 290   |
| FILA05 | FILA  | White  | S    | 13.00 | 45    |
| FILA06 | FILA  | Navy   | M    | 14.00 | 35    |
| FILA07 | FILA  | Yellow | S    | 15.00 | 20    |

To add an item into the database, it is supposed to input all the information to make it:

[Home](#)
[Admin](#)

Admin Page

Add Item

ItemID

Brand

Colour

Size

Price

Stock

ADD

After clicking “ADD”, if succeeded, an alert popup will show up.

|         |       |        |   |       |     |
|---------|-------|--------|---|-------|-----|
| NIKE05  | NIKE  | Yellow | M | 19.00 | 230 |
| PUMA01  | PUMA  | Navy   | S | 11.00 | 250 |
| PUMA02  | PUMA  | White  | L | 13.00 | 210 |
| PUMA03  | PUMA  | Black  | M | 9.00  | 290 |
| PUMA04  | PUMA  | White  | S | 13.00 | 270 |
| PUMA05  | PUMA  | Navy   | M | 11.00 | 240 |
| FILA01  | FILA  | Yellow | M | 19.00 | 230 |
| FILA02  | FILA  | Navy   | M | 9.00  | 250 |
| FILA03  | FILA  | White  | L | 8.00  | 80  |
| FILA04  | FILA  | Black  | L | 9.00  | 290 |
| FILA05  | FILA  | White  | S | 13.00 | 45  |
| FILA06  | FILA  | Navy   | M | 14.00 | 35  |
| FILA07  | FILA  | Yellow | S | 15.00 | 20  |
| XTEP07  | XTEP  | Yellow | M | 7.00  | 92  |
| XTEP08  | XTEP  | Black  | S | 11.00 | 78  |
| XTEP09  | XTEP  | White  | M | 3.00  | 25  |
| EXTRA01 | Extra | Green  | S | 99.00 | 999 |

The new item will be added at the bottom of the table.

If any line is empty, an alert of a mistake will show up.

[Home](#) [Admin](#)

Admin Page

Add Item

ItemID: EXTRA02

Brand:

Colour:

Size: L

Price:

Stock:

ADD

|                      |        |   |       |     |
|----------------------|--------|---|-------|-----|
| NIKE                 | Yellow | M | 19.00 | 230 |
| brand value is empty |        |   |       |     |
| PUMA                 | Navy   | M | 11.00 | 240 |

The update function only requires the customer to input the ItemID and one of the attributes:

Update Item

ItemID: EXTRA01

Brand:

Colour: Beige

Size:

Price:

Stock:

UPDATE

|     |                            |       |       |       |       |     |
|-----|----------------------------|-------|-------|-------|-------|-----|
| 008 | UNIQLO                     | White | L     | 11.00 | 243   |     |
| 009 | update operation succeeded |       |       |       |       |     |
| 01  | Close                      |       |       |       |       |     |
| 02  |                            |       |       |       |       |     |
| 03  |                            |       |       |       |       |     |
| 04  | ACICS                      | White | L     | 6.00  | 201   |     |
|     | XTEP08                     | XTEP  | Black | S     | 11.00 | 78  |
|     | XTEP09                     | XTEP  | White | M     | 3.00  | 25  |
|     | EXTRA01                    | Extra | Beige | S     | 99.00 | 999 |

As we can see, the colour was changed from “Green” to “Beige”.  
If we input a wrong ItemID, the mistake alert will pop up:

Update Item

ItemID: \$\$\$\$\$

Brand:

Colour:

Size: s

Price:

Stock:

UPDATE

|          |                             |        |   |       |  |
|----------|-----------------------------|--------|---|-------|--|
| UNIQLO07 | UNIQLO                      | Yellow | L | 7.00  |  |
| UNIQLO08 | UNIQLO                      | White  | L | 11.00 |  |
| UNIQLO09 | Please input correct ItemID |        |   |       |  |
| ACICS01  | Close                       |        |   |       |  |
| ACICS02  |                             |        |   |       |  |
| ACICS03  |                             |        |   |       |  |
| ACICS04  | ACICS                       | White  | L | 6.00  |  |
| ACICS05  | ACICS                       | Navy   | M | 8.00  |  |
| ACICS06  | ACICS                       | White  | M | 9.00  |  |
| ACICS07  | ACICS                       | Navy   | L | 12.00 |  |

To delete an item, the only thing we need to do is to input the ItemID:

Delete Item

ItemID: EXTRA01

DELETE

|         |       |        |   |       |     |
|---------|-------|--------|---|-------|-----|
| ACICS07 | ACICS | Navy   | L | 12.00 | 20  |
| ACICS08 | ACICS | Black  | M | 15.00 | 28  |
| ACICS09 | ACICS | White  | M | 17.00 | 24  |
| XTEP01  | XTEP  | Navy   | S | 7.00  | 28  |
| XTEP02  | XTEP  | Navy   | M | 11.00 | 58  |
| XTEP03  | XTEP  | Black  | S | 12.00 | 38  |
| XTEP04  | XTEP  | Navy   | M | 13.00 | 217 |
| XTEP05  | XTEP  | White  | L | 11.00 | 29  |
| XTEP06  | XTEP  | Navy   | L | 15.00 | 82  |
| XTEP07  | XTEP  | Yellow | M | 7.00  | 92  |
| XTEP08  | XTEP  | Black  | S | 11.00 | 78  |
| XTEP09  | XTEP  | White  | M | 3.00  | 25  |
| EXTRA01 | Extra | Beige  | S | 99.00 | 999 |

delete operation succeeded

Close

|     |      |        |   |       |    |
|-----|------|--------|---|-------|----|
| E05 | NIKE | Yellow | M | 19.00 | 23 |
| A01 |      |        |   |       |    |
| A02 |      |        |   |       |    |
| A03 |      |        |   |       |    |
| A04 |      |        |   |       |    |
| A05 | PUMA | Navy   | M | 11.00 | 24 |

After the delete action, EXTRA01 disappeared.

|        |      |        |   |       |    |
|--------|------|--------|---|-------|----|
| XTEP06 | XTEP | Navy   | L | 15.00 | 82 |
| XTEP07 | XTEP | Yellow | M | 7.00  | 92 |
| XTEP08 | XTEP | Black  | S | 11.00 | 78 |
| XTEP09 | XTEP | White  | M | 3.00  | 25 |

Wrong input of ItemID will be alerted and has no reaction.

To go back to the user page, just click “Home” at the top left corner.

[Home](#)

[Admin](#)

Admin Page

Add Item

A log file is updated every time we make any Add/Update/Delete operation.

```

2020-06-01 16:18:33
delete:delete from socks where `ItemID`='EXTRA01'
-----
2020-06-01 16:19:04
add:insert into socks (`ItemID`, `Brand`, `Colour`, `Size`, `Price`, `Stock`) values ('EXTRA01','Holden','red','S','1000','100')
-----
2020-06-01 16:19:21
update:update socks set `ItemID`='EXTRA01', `Stock`='1000000' where ItemID='EXTRA01'
-----
2020-06-01 16:19:27
delete:delete from socks where `ItemID`='EXTRA01'
-----
2020-06-02 04:11:02
add:insert into socks (`ItemID`, `Brand`, `Colour`, `Size`, `Price`, `Stock`) values ('extra01','extra01','gray','s','10','10')
-----
2020-06-02 04:11:19
delete:delete from socks where `ItemID`='extra01'
-----
2020-06-02 04:36:07
add:insert into socks (`ItemID`, `Brand`, `Colour`, `Size`, `Price`, `Stock`) values ('EXTRA01','Extra','Green','S','99','999')
-----
2020-06-02 04:43:40
update:update socks set `ItemID`='EXTRA01', `Colour`='Beige' where ItemID='EXTRA01'
-----
2020-06-02 04:48:14
delete:delete from socks where `ItemID`='EXTRA01'
-----

```

This is how my database looks like. The data were imported by “Import” a SQL file with all the demands inside.

# SQL File

```
SET NAMES utf8mb4;

SET FOREIGN_KEY_CHECKS = 0;

-----

-- Table structure for socks

-----

DROP TABLE IF EXISTS `socks`;

CREATE TABLE `socks` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `ItemID` varchar(50) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,
  `Brand` varchar(50) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,
  `Colour` varchar(50) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,
  `Size` varchar(50) CHARACTER SET utf8 COLLATE utf8_general_ci NULL DEFAULT NULL,
  `Price` decimal(10, 2) NULL DEFAULT NULL,
  `Stock` int(255) NULL DEFAULT NULL,
  PRIMARY KEY (`id`) USING BTREE
) ENGINE = MyISAM AUTO_INCREMENT = 24 CHARACTER SET = utf8 COLLATE =
utf8_general_ci ROW_FORMAT = Dynamic;

-----

-- Records of socks

-----

INSERT INTO `socks` VALUES (1, 'HM001', 'H&M', 'Yellow', 'M', 8.00, 120);
INSERT INTO `socks` VALUES (2, 'HM002', 'H&M', 'White', 'S', 6.00, 170);
INSERT INTO `socks` VALUES (3, 'HM004', 'H&M', 'Black', 'L', 7.00, 160);
INSERT INTO `socks` VALUES (4, 'HM004', 'H&M', 'Black', 'M', 7.00, 200);
INSERT INTO `socks` VALUES (5, 'HM005', 'H&M', 'White', 'L', 8.00, 180);
INSERT INTO `socks` VALUES (6, 'NIKE01', 'NIKE', 'Navy', 'L', 12.00, 190);
INSERT INTO `socks` VALUES (7, 'NIKE02', 'NIKE', 'White', 'S', 14.00, 110);
INSERT INTO `socks` VALUES (8, 'NIKE03', 'NIKE', 'Navy', 'L', 14.00, 190);
INSERT INTO `socks` VALUES (9, 'NIKE04', 'NIKE', 'White', 'S', 13.00, 220);
INSERT INTO `socks` VALUES (10, 'NIKE05', 'NIKE', 'Yellow', 'M', 19.00, 230);
INSERT INTO `socks` VALUES (11, 'PUMA01', 'PUMA', 'Navy', 'S', 11.00, 250);
INSERT INTO `socks` VALUES (12, 'PUMA02', 'PUMA', 'White', 'L', 13.00, 210);
INSERT INTO `socks` VALUES (13, 'PUMA03', 'PUMA', 'Black', 'M', 9.00, 290);
```

```
INSERT INTO `socks` VALUES (14, 'PUMA04', 'PUMA', 'White', 'S', 13.00, 270);
INSERT INTO `socks` VALUES (15, 'PUMA05', 'PUMA', 'Navy', 'M', 11.00, 240);
INSERT INTO `socks` VALUES (16, 'FILA01', 'FILA', 'Yellow', 'M', 19.00, 230);
INSERT INTO `socks` VALUES (17, 'FILA02', 'FILA', 'Navy', 'M', 9.00, 250);
INSERT INTO `socks` VALUES (18, 'FILA03', 'FILA', 'White', 'L', 8.00, 80);
INSERT INTO `socks` VALUES (19, 'FILA04', 'FILA', 'Black', 'L', 9.00, 290);
INSERT INTO `socks` VALUES (20, 'FILA05', 'FILA', 'White', 'S', 13.00, 45);
INSERT INTO `socks` VALUES (21, 'FILA06', 'FILA', 'Navy', 'M', 14.00, 35);
INSERT INTO `socks` VALUES (22, 'FILA07', 'FILA', 'Yellow', 'S', 15.00, 20);
INSERT INTO `socks` VALUES (23, 'ZARA01', 'ZARA', 'Navy', 'S', 2.00, 50);
INSERT INTO `socks` VALUES (24, 'ZARA02', 'ZARA', 'White', 'L', 3.00, 60);
INSERT INTO `socks` VALUES (25, 'ZARA03', 'ZARA', 'Black', 'M', 19.00, 70);
INSERT INTO `socks` VALUES (26, 'ZARA04', 'ZARA', 'White', 'S', 13.00, 270);
INSERT INTO `socks` VALUES (27, 'ZARA05', 'ZARA', 'Navy', 'L', 12.00, 100);
INSERT INTO `socks` VALUES (28, 'ZARA06', 'ZARA', 'Black', 'M', 9.00, 90);
INSERT INTO `socks` VALUES (29, 'ZARA07', 'ZARA', 'White', 'S', 4.00, 270);
INSERT INTO `socks` VALUES (30, 'ZARA08', 'ZARA', 'Navy', 'M', 11.00, 240);
INSERT INTO `socks` VALUES (31, 'ANTA01', 'ANTA', 'Navy', 'M', 2.00, 24);
INSERT INTO `socks` VALUES (32, 'ANTA02', 'ANTA', 'White', 'L', 2.00, 34);
INSERT INTO `socks` VALUES (33, 'ANTA03', 'ANTA', 'Black', 'M', 3.00, 15);
INSERT INTO `socks` VALUES (34, 'ANTA04', 'ANTA', 'Navy', 'L', 4.00, 68);
INSERT INTO `socks` VALUES (35, 'ANTA05', 'ANTA', 'Yellow', 'S', 5.00, 90);
INSERT INTO `socks` VALUES (36, 'ANTA06', 'ANTA', 'Navy', 'S', 6.00, 245);
INSERT INTO `socks` VALUES (37, 'ANTA07', 'ANTA', 'Black', 'M', 4.00, 135);
INSERT INTO `socks` VALUES (38, 'ANTA08', 'ANTA', 'Navy', 'S', 8.00, 125);
INSERT INTO `socks` VALUES (39, 'ANTA09', 'ANTA', 'Yellow', 'M', 4.00, 50);
INSERT INTO `socks` VALUES (40, 'VANS01', 'VANS', 'White', 'S', 11.00, 66);
INSERT INTO `socks` VALUES (41, 'VANS02', 'VANS', 'Black', 'M', 12.00, 88);
INSERT INTO `socks` VALUES (42, 'VANS03', 'VANS', 'Navy', 'S', 13.00, 77);
INSERT INTO `socks` VALUES (43, 'VANS04', 'VANS', 'Navy', 'M', 13.00, 120);
INSERT INTO `socks` VALUES (44, 'VANS05', 'VANS', 'Yellow', 'L', 12.00, 200);
INSERT INTO `socks` VALUES (45, 'VANS06', 'VANS', 'Navy', 'L', 16.00, 130);
INSERT INTO `socks` VALUES (46, 'VANS07', 'VANS', 'Yellow', 'L', 18.00, 10);
INSERT INTO `socks` VALUES (47, 'VANS08', 'VANS', 'Black', 'M', 18.00, 290);
```



```
INSERT INTO `socks` VALUES (48, 'KAPPA01', 'KAPPA', 'White', 'S', 12.00, 43);
INSERT INTO `socks` VALUES (49, 'KAPPA02', 'KAPPA', 'Black', 'L', 8.00, 53);
INSERT INTO `socks` VALUES (50, 'KAPPA03', 'KAPPA', 'Yellow', 'M', 7.00, 63);
INSERT INTO `socks` VALUES (51, 'KAPPA04', 'KAPPA', 'Navy', 'S', 8.00, 67);
INSERT INTO `socks` VALUES (52, 'KAPPA05', 'KAPPA', 'White', 'M', 7.00, 79);
INSERT INTO `socks` VALUES (53, 'KAPPA06', 'KAPPA', 'Navy', 'L', 6.00, 70);
INSERT INTO `socks` VALUES (54, 'KAPPA07', 'KAPPA', 'Yellow', 'M', 9.00, 131);
INSERT INTO `socks` VALUES (55, 'KAPPA08', 'KAPPA', 'White', 'S', 16.00, 154);
INSERT INTO `socks` VALUES (56, 'KAPPA09', 'KAPPA', 'Navy', 'L', 10.00, 144);
INSERT INTO `socks` VALUES (57, 'UMBRO01', 'UMBRO', 'White', 'M', 10.00, 119);
INSERT INTO `socks` VALUES (58, 'UMBRO02', 'UMBRO', 'Navy', 'S', 18.00, 75);
INSERT INTO `socks` VALUES (59, 'UMBRO03', 'UMBRO', 'White', 'M', 17.00, 74);
INSERT INTO `socks` VALUES (60, 'UMBRO04', 'UMBRO', 'Black', 'S', 14.00, 86);
INSERT INTO `socks` VALUES (61, 'UMBRO05', 'UMBRO', 'Yellow', 'M', 4.00, 83);
INSERT INTO `socks` VALUES (62, 'UMBRO06', 'UMBRO', 'Navy', 'S', 5.00, 94);
INSERT INTO `socks` VALUES (63, 'UMBRO07', 'UMBRO', 'White', 'M', 4.00, 98);
INSERT INTO `socks` VALUES (64, 'UMBRO08', 'UMBRO', 'Black', 'L', 9.00, 65);
INSERT INTO `socks` VALUES (65, 'UMBRO09', 'UMBRO', 'Navy', 'M', 8.00, 76);
INSERT INTO `socks` VALUES (66, 'LOTTO01', 'LOTTO', 'Yellow', 'L', 11.00, 175);
INSERT INTO `socks` VALUES (67, 'LOTTO02', 'LOTTO', 'Black', 'M', 8.00, 153);
INSERT INTO `socks` VALUES (68, 'LOTTO03', 'LOTTO', 'White', 'L', 8.00, 143);
INSERT INTO `socks` VALUES (69, 'LOTTO04', 'LOTTO', 'Navy', 'S', 9.00, 133);
INSERT INTO `socks` VALUES (70, 'LOTTO05', 'LOTTO', 'Yellow', 'M', 9.00, 128);
INSERT INTO `socks` VALUES (71, 'LOTTO06', 'LOTTO', 'Navy', 'M', 5.00, 126);
INSERT INTO `socks` VALUES (72, 'LOTTO07', 'LOTTO', 'White', 'S', 6.00, 214);
INSERT INTO `socks` VALUES (73, 'LOTTO08', 'LOTTO', 'Navy', 'S', 17.00, 241);
INSERT INTO `socks` VALUES (74, 'UNIQLO01', 'UNIQLO', 'Black', 'S', 12.00, 56);
INSERT INTO `socks` VALUES (75, 'UNIQLO02', 'UNIQLO', 'Black', 'S', 9.00, 59);
INSERT INTO `socks` VALUES (76, 'UNIQLO03', 'UNIQLO', 'Black', 'M', 7.00, 60);
INSERT INTO `socks` VALUES (77, 'UNIQLO04', 'UNIQLO', 'White', 'M', 5.00, 69);
INSERT INTO `socks` VALUES (78, 'UNIQLO05', 'UNIQLO', 'White', 'M', 12.00, 96);
INSERT INTO `socks` VALUES (79, 'UNIQLO06', 'UNIQLO', 'Navy', 'L', 11.00, 46);
INSERT INTO `socks` VALUES (80, 'UNIQLO07', 'UNIQLO', 'Yellow', 'L', 7.00, 41);
INSERT INTO `socks` VALUES (81, 'UNIQLO08', 'UNIQLO', 'White', 'L', 11.00, 243);
```

```
INSERT INTO `socks` VALUES (82, 'UNIQLO09', 'UNIQLO', 'Navy', 'M', 8.00, 247);
INSERT INTO `socks` VALUES (83, 'ACICS01', 'ACICS', 'Navy', 'S', 11.00, 211);
INSERT INTO `socks` VALUES (84, 'ACICS02', 'ACICS', 'White', 'S', 8.00, 222);
INSERT INTO `socks` VALUES (85, 'ACICS03', 'ACICS', 'Black', 'S', 5.00, 221);
INSERT INTO `socks` VALUES (86, 'ACICS04', 'ACICS', 'White', 'L', 6.00, 201);
INSERT INTO `socks` VALUES (87, 'ACICS05', 'ACICS', 'Navy', 'M', 8.00, 208);
INSERT INTO `socks` VALUES (88, 'ACICS06', 'ACICS', 'White', 'M', 9.00, 15);
INSERT INTO `socks` VALUES (89, 'ACICS07', 'ACICS', 'Navy', 'L', 12.00, 26);
INSERT INTO `socks` VALUES (90, 'ACICS08', 'ACICS', 'Black', 'M', 15.00, 28);
INSERT INTO `socks` VALUES (91, 'ACICS09', 'ACICS', 'White', 'M', 17.00, 24);
INSERT INTO `socks` VALUES (92, 'XTEP01', 'XTEP', 'Navy', 'S', 7.00, 28);
INSERT INTO `socks` VALUES (93, 'XTEP02', 'XTEP', 'Navy', 'M', 11.00, 58);
INSERT INTO `socks` VALUES (94, 'XTEP03', 'XTEP', 'Black', 'S', 12.00, 38);
INSERT INTO `socks` VALUES (95, 'XTEP04', 'XTEP', 'Navy', 'M', 13.00, 217);
INSERT INTO `socks` VALUES (96, 'XTEP05', 'XTEP', 'White', 'L', 11.00, 29);
INSERT INTO `socks` VALUES (97, 'XTEP06', 'XTEP', 'Navy', 'L', 15.00, 82);
INSERT INTO `socks` VALUES (98, 'XTEP07', 'XTEP', 'Yellow', 'M', 7.00, 92);
INSERT INTO `socks` VALUES (99, 'XTEP08', 'XTEP', 'Black', 'S', 11.00, 78);
INSERT INTO `socks` VALUES (100, 'XTEP09', 'XTEP', 'White', 'M', 3.00, 25);
SET FOREIGN_KEY_CHECKS = 1;
```

# User Page PHP File

```
<!DOCTYPE html>
<html>
<head>
  <title>User Page</title>
  <style>
    .mytable {
      border: 1px solid #A6C1E4;
      font-family: Arial;
      border-collapse: collapse;
    }
    table th {
      border: 1px solid black;
      background-color: #71c1fb;
      width: 100px;
      height: 20px;
      font-size: 15px;
    }
    table td {
      border: 1px solid #A6C1E4;
      text-align: center;
      height: 15px;
      padding-top: 5px;
    }
    th, td, p, input {
      font: 14px Verdana;
    }
    table, th, td {
      border: solid 1px #DDD;
      border-collapse: collapse;
      padding: 2px 3px;
      text-align: center;
    }
    th {
```

```
    font-weight: bold;
}

fieldset {
    width: 300px;
    margin-bottom: 10px;
}

fieldset fieldset{
    background-color: #FFEFD5;
}

label {
    text-align: left;
    display: inline-block;
    width: 95px;
}

button {
    padding: 8px;
    margin: 6px 0 0 6px;
    border-radius: 4px;
    box-shadow: 2px 2px 2px #333333;
    margin-bottom: 4px;
    font-size: 1.0em;
    width: 42px;
}

.field {
    width: 12.0em;
    font-size: 1.0em;
}

.button {
    background-color: #d9f57f;
    padding: 8px;
    margin: 6px 0 0 6px;
    border-radius: 4px;
    box-shadow: 2px 2px 2px #333333;
```

```

        margin-bottom: 4px;

        font-size: 19px;

        width: 120px;

    }

    .button:hover {

        background-color: #03fcd7;

    }

</style>
</head>
<body>
<?php
    error_reporting(0);

    $dbhost = 'localhost:3306';
    $dbuser = 'root';
    $dbpass = '';

    $conn = mysqli_connect($dbhost, $dbuser, $dbpass);
    if(! $conn )
    {
        die('mysqli_error: ' . mysqli_error($conn));
    }

    mysqli_query($conn , "set names utf8");
    $sql = 'select * from socks ';
    $where = "";
    if($_GET['Brand'] || $_GET['Colour'] || $_GET['Size'] || $_GET['Min'] || $_GET['Max']){
        $where .= 'where';
        $Min = $_GET['Min'];
        $Max = $_GET['Max'];
        unset($_GET['Min'], $_GET['Max']);
        $i = 0;
        if($Min != ""){
            $where .= " Price >= '{$Min}' and";
        }
        if($Max != ""){
            $where .= " Price <= '{$Max}' and";
        }
    }

```

```

}
foreach ($_GET as $k=>$v){
    $i++;
    $where .= '(';
    foreach ($v as $value){
        $where .= " `{$k}`='{$value}'";
        if(end($v) != $value){
            $where .= ' or';
        }
    }
    $where .= ')';
    if($i >= 1) $where .= 'and';
}
$where = substr($where,0,strlen($where)-3);
}
if($where != "") $sql .= $where;
mysqli_select_db( $conn, 'socks' );
$retval = mysqli_query( $conn, $sql );
if(!$retval)
{
    die('mysqli_error: ' . mysqli_error($conn));
}

echo '<table id="empTable" style="float: left;margin-left: 380px" class="mytable"><caption
style="font-size: 30px;margin-bottom: 10px">Sock World</caption>

<tr><th>ItemID</th><th>Brand</th><th>Colour</th><th>Size</th><th>Price</th><th>Stock</th>
</tr>';

while($row = mysqli_fetch_array($retval, MYSQLI_ASSOC))
{
    echo "<tr><td> {$row['ItemID']}</td> ".
        "<td>{$row['Brand']} </td> ".
        "<td>{$row['Colour']} </td> ".
        "<td>{$row['Size']} </td> ".
        "<td>{$row['Price']} </td> ".

```

```

        "<td>{$row['Stock']} </td> ".
        "</tr>";
    }
    echo '</table>';
//  mysqli_close($conn);
?>
<div style="float: left;position: fixed">
    <a style="font-size: 20px;color: #ff2222" href="">Home</a>
    <a style="font-size: 20px; margin-left: 40px;color: #000" href="Admin.php">Admin</a>
    <fieldset style="margin-top: 10px">
        <legend>User Page</legend>
        <form action="" method="get">
            <fieldset>
                <legend>Brand</legend>
                <?php
                    if($where != ""){
                        $where = substr($where,5);
                    }
                    $sql = "select Brand,";
                    if($where != ""){

                        $sql .= "COUNT(CASE WHEN {$where} THEN 1 ELSE NULL END) as count";
                    }else{
                        $sql .= "count(1) as count";
                    }
                    $sql .= " from socks  group by Brand";
                    $retval = mysqli_query( $conn, $sql );
                    if(!$retval)
                    {
                        die('mysqli_error: ' . mysqli_error($conn));
                    }
                    while($row = mysqli_fetch_array($retval, MYSQLI_ASSOC))
                    {
                        if(is_array($_GET["Brand"]) && in_array($row['Brand'],$_GET["Brand"])){

```

```

        $checked = 'checked=checked';
    }else{
        $checked = "";
    }

    echo "<input type='checkbox' id='{ $row['Brand']}' name = Brand[]
value='{ $row['Brand']}' {$checked}/>({ $row['count']})

        <label for='{ $row['Brand']}'>{ $row['Brand']}</label><br>";

    }

?>
</fieldset>
<fieldset>
    <legend>Colour</legend>

    <?php
    $sql = "select Colour, ";
    if ($where != "") {
        $sql .= "COUNT(CASE WHEN { $where} THEN 1 ELSE NULL END) as count";
    } else {
        $sql .= "count(1) as count";
    }

    $sql .= " from socks group by Colour";
    $retval = mysqli_query($conn, $sql);
    if(!$retval)
    {
        die('mysqli_error: ' . mysqli_error($conn));
    }
    while($row = mysqli_fetch_array($retval, MYSQLI_ASSOC))
    {
        if(is_array($_GET["Colour"]) && in_array($row['Colour'], $_GET["Colour"])){

            $checked = 'checked=checked';
        }else{
            $checked = "";
        }
    }

```



```

        echo "<input type='checkbox' id='{ $row['Colour']}' name = Colour[]
value='{ $row['Colour']}' { $checked}/>({ $row['count']})
        <label for='{ $row['Colour']}'>{ $row['Colour']}</label><br>";
    }
    ?>
</fieldset>
<fieldset>
    <legend>Size</legend>
    <?php
        $sql = "select Size,";
        if ($where != "") {
            $sql .= "COUNT(CASE WHEN { $where} THEN 1 ELSE NULL END) as count";
        } else {
            $sql .= "count(1) as count";
        }
        $sql .= " from socks group by Size";
        $retval = mysqli_query( $conn, $sql );
        if(!$retval)
        {
            die('mysqli_error: ' . mysqli_error($conn));
        }
        while($row = mysqli_fetch_array($retval, MYSQLI_ASSOC))
        {
            if(is_array($_GET["Size"]) && in_array($row['Size'], $_GET["Size"])){
                $checked = 'checked=checked';
            }else{
                $checked = "";
            }
            echo "<input type='checkbox' id='{ $row['Size']}' name = Size[]
value='{ $row['Size']}' { $checked}/>({ $row['count']})
            <label for='{ $row['Size']}'>{ $row['Size']}</label><br>";
        }
    ?>
</fieldset>

```

```

    <fieldset>
        <legend>Price Range</legend>
        <label for="minPrice">From:</label>
        <input type="text" id="minPrice" name="Min" placeholder="Min" value="<?php echo
$Min?>"/><br>

        <label for="maxPrice">To:</label>
        <input type="text" id="maxPrice" name="Max" placeholder="Max" value="<?php
echo $Max?>"/>
    </fieldset>
    <input type="submit" id="colourFilter" value="Confirm"/>
    <input type="button" id="clears" onclick="myFunction()" value="Clear All"/>
</form>
</fieldset>
</div>
<p id="brand"></p>
<p id="colour"></p>
<p id="size"></p>
<script>
    function myFunction(){
        var href = "<?php echo "http://".$_SERVER['HTTP_HOST'].$_SERVER['PHP_SELF'];?>";
        location.href = href;
    }
</script>
</body>
<?php
foreach ($_POST as $key=>$value){
    if($value == ""){
        echo "<script>alert('{ $key } value is empty')</script>";
        exit();
    }
}
if($_POST['type']){
    switch ($_POST['type']){

```

```

    case 'add':

        $sql = "insert into socks (`ItemID`, `Brand`, `Colour`, `Size`, `Price`, `Stock`) values
('{$_POST['ItemID']}', '{$_POST['brand']}', '{$_POST['colour']}', '{$_POST['size']}', '{$_POST['price']}', '
{$_POST['stock']}')";

        $res = mysqli_query( $conn, $sql );

        if(!$res)

        {

            die('mysqli_error: ' . mysqli_error($conn));

        }

        break;

    case 'update':

        existItemID($conn);

        $sql = "update socks set `ItemID`='{$_POST['ItemID']}', `Brand`='{$_POST['brand']}',
`Colour`='{$_POST['colour']}', `Size`='{$_POST['size']}', `Price`='{$_POST['price']}',
`Stock`='{$_POST['stock']}' where ItemID='{$_POST['ItemID']}'";

        $retval = mysqli_query( $conn, $sql );

        if(!$retval)

        {

            die('mysqli_error: ' . mysqli_error($conn));

        }

        break;

    case 'delete':

        existItemID($conn);

        $sql = "delete from socks where `ItemID`='{$_POST['ItemID']}'";

        $retval = mysqli_query( $conn, $sql );

        if(!$retval)

        {

            die('mysqli_error: ' . mysqli_error($conn));

        }

        break;

}

echo "<script>alert('{$_POST['type']} operation succeeded')</script>";

echo "<script language='\"javascript\"'>location.href=location.href;</script>";

exit();

```

```
}  
  
function existItemID($conn){  
    $sql = "select count(1) as count from socks where `ItemID`='{$_POST["ItemID"]}'";  
    $retval = mysqli_query( $conn, $sql );  
    if(!$retval)  
    {  
        die('mysqli_error: ' . mysqli_error($conn));  
    }  
    $socks = mysqli_fetch_array($retval,MYSQLI_ASSOC);  
    if($socks['count'] < 1){  
  
        echo "<script>alert('Please input correct ItemID')</script>";  
        echo "<script language=\"javascript\">location.href=location.href;</script>";  
        exit();  
    }  
}  
  
?>  
</html>
```

## Admin Page PHP File

```
<!DOCTYPE html>
<html>
<head>
  <title>Admin Page</title>
  <style>
    .mytable {
      border: 1px solid #A6C1E4;
      font-family: Arial;
      border-collapse: collapse;
    }
    table th {
      border: 1px solid black;
      background-color: #71c1fb;
      width: 100px;
      height: 20px;
      font-size: 15px;
    }
    table td {
      border: 1px solid #A6C1E4;
      text-align: center;
      height: 15px;
      padding-top: 5px;
    }
    th, td, p, input {
      font: 14px Verdana;
    }
    table, th, td {
      border: solid 1px #DDD;
      border-collapse: collapse;
      padding: 2px 3px;
      text-align: center;
    }
    th {
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    font-weight: bold;
}

fieldset {
    width: 300px;
    margin-bottom: 10px;
}

fieldset fieldset{
    background-color: #FFEFD5;
}

label {
    text-align: left;
    display: inline-block;
    width: 95px;
}

button {
    padding: 8px;
    margin: 6px 0 0 6px;
    border-radius: 4px;
    box-shadow: 2px 2px 2px #333333;
    margin-bottom: 4px;
    font-size: 1.0em;
    width: 42px;
}

.field {
    width: 12.0em;
    font-size: 1.0em;
}

.button {
    background-color: #d9f57f;
    padding: 8px;
    margin: 6px 0 0 6px;
    border-radius: 4px;
    box-shadow: 2px 2px 2px #333333;
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        margin-bottom: 4px;

        font-size: 19px;

        width: 120px;

    }

    .button:hover {

        background-color: #03fcd7;

    }

</style>
</head>
<body>
<?php
error_reporting(0);
$dbhost = 'localhost:3306';
$dbuser = 'root';
$dbpass = '';
$conn = mysqli_connect($dbhost, $dbuser, $dbpass);
if(! $conn )
{
    die('mysqli_error: ' . mysqli_error($conn));
}
mysqli_query($conn , "set names utf8");
$sql = 'select * from socks ';
$where = "";
if($_GET['Brand'] || $_GET['Colour'] || $_GET['Size'] || $_GET['Min'] || $_GET['Max']){
    $where .= 'where';
    $Min = $_GET['Min'];
    $Max = $_GET['Max'];
    unset($_GET['Min'], $_GET['Max']);
    $i = 0;
    if($Min != ""){
        $where .= " Price >= '{$Min}' and";
    }
    if($Max != ""){
        $where .= " Price <= '{$Max}' and";
    }
}

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}
foreach ($_GET as $k=>$v){
    $i++;
    $where .= '(';
    foreach ($v as $value){
        $where .= " `{$k}`='{$value}'";
        if(end($v) != $value){
            $where .= ' or';
        }
    }
    $where .= ')';
    if($i >= 1) $where .= 'and';
}
$where = substr($where,0,strlen($where)-3);
}
if($where != "") $sql .= $where;
mysqli_select_db( $conn, 'socks' );
$retval = mysqli_query( $conn, $sql );
if(!$retval)
{
    die('mysqli_error: ' . mysqli_error($conn));
}
echo '<table id="empTable" style="float: left;margin-left: 380px" class="mytable"><caption
style="font-size: 30px;margin-bottom: 10px">Sock World</caption>

<tr><th>ItemID</th><th>Brand</th><th>Colour</th><th>Size</th><th>Price</th><th>Stock</th>
</tr>';
while($row = mysqli_fetch_array($retval, MYSQLI_ASSOC))
{
    echo "<tr><td> {$row['ItemID']}</td> ".
        "<td>{$row['Brand']} </td> ".
        "<td>{$row['Colour']} </td> ".
        "<td>{$row['Size']} </td> ".
        "<td>{$row['Price']} </td> ".

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        "<td>{$row['Stock']} </td> ".
        "</tr>";
    }
    echo '</table>';
    // mysqli_close($conn);
    ?>
<div style="float: left;position: fixed">
    <a style="font-size: 20px;color: #000" href="table.php">Home</a>
    <a style="font-size: 20px; margin-left: 40px;color: #ff2222" href="Admin.php">Admin</a>
    <fieldset style="margin-top: 10px">
        <legend>Admin Page</legend>
        <fieldset>
            <form action="" method="post">
                <legend>Add Item</legend>
                <label for="ItemID">ItemID</label>
                <input type="text" name="ItemID"><br>
                <label for="brand">Brand</label>
                <input type="text" name="brand"><br>
                <label for="colour">Colour</label>
                <input type="text" name="colour"><br>
                <label for="size">Size</label>
                <input type="text" name="size"><br>
                <label for="price">Price</label>
                <input type="text" name="price"><br>
                <label for="stock">Stock</label>
                <input type="text" name="stock"><br>
                <input type="hidden" name="type" value="add">
                <input type="submit" name="addItem" value="ADD">
            </form>
        </fieldset>
    <fieldset>
        <form action="" method="post">
            <legend>Update Item</legend>
            <label for="ItemID">ItemID</label>

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        <input type="text" name="ItemID"><br>
        <label for="brand">Brand</label>
        <input type="text" name="brand"><br>
        <label for="colour">Colour</label>
        <input type="text" name="colour"><br>
        <label for="size">Size</label>
        <input type="text" name="size"><br>
        <label for="price">Price</label>
        <input type="text" name="price"><br>
        <label for="stock">Stock</label>
        <input type="text" name="stock"><br>
        <input type="hidden" value="update" name="type">
        <input type="submit" name="updateItem" value="UPDATE">
    </form>
</fieldset>
<fieldset>
    <form action="" method="post">
        <legend>Delete Item</legend>
        <label for="ItemID">ItemID</label>
        <input type="text" name="ItemID"><br>
        <input type="hidden" value="delete" name="type">
        <input type="submit" name="deleteItem" value="DELETE">
    </form>
</fieldset>
</fieldset>
</div>
<p id="brand"></p>
<p id="colour"></p>
<p id="size"></p>
</body>
<?php
foreach ($_POST as $key=>$value){
    if($value == ""){
        if($_POST['updateItem'] != 'UPDATE' || $_POST['ItemID'] == ""){

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        echo "<script>alert('{$_key} value is empty')</script>";
        exit();
    }
}
}

if($_POST['type']){
    switch ($_POST['type']){
        case 'add':
            $sql = "insert into socks (`ItemID`, `Brand`, `Colour`, `Size`, `Price`, `Stock`) values
('".$_POST['ItemID']."','".$_POST['brand']."','".$_POST['colour']."','".$_POST['size']."','".$_POST['price']."',
".$_POST['stock']."'");

            $res = mysqli_query( $conn, $sql );
            if(!$res)
            {
                die('mysqli_error: ' . mysqli_error($conn));
            }
            break;
        case 'update':
            existItemID($conn);
            $sql = "update socks set ";
            if($_POST['ItemID'] != ""){
                $sql .= " `ItemID`='{$_POST['ItemID']}',";
            }
            if($_POST['brand'] != ""){
                $sql .= " `Brand`='{$_POST['brand']}',";
            }
            if($_POST['colour'] != ""){
                $sql .= " `Colour`='{$_POST['colour']}',";
            }
            if($_POST['size'] != ""){
                $sql .= " `Size`='{$_POST['size']}',";
            }
            if($_POST['price'] != ""){
                $sql .= " `Price`='{$_POST['price']}',";
            }

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    }
    if($_POST['stock'] != ""){
        $sql .= " `Stock`='{$_POST['stock']}'";
    }
    $sql = substr($sql,0,strlen($sql)-1);
    $sql .= " where ItemID='{$_POST['ItemID']}'";
    $retval = mysqli_query( $conn, $sql );
    if($retval === false)
    {
        die('mysqli_error: ' . mysqli_error($conn));
    }
    break;
case 'delete':
    existItemID($conn);
    $sql = "delete from socks where `ItemID`='{$_POST['ItemID']}'";
    $retval = mysqli_query( $conn, $sql );
    if(!$retval)
    {
        die('mysqli_error: ' . mysqli_error($conn));
    }
    break;
}
$content = $_POST['type'].'.$sql.';
file_put_contents('logs.txt',date("Y-m-d H:i:s")."\r\n",FILE_APPEND);
file_put_contents('logs.txt',$content."\r\n",FILE_APPEND);
file_put_contents('logs.txt',"-----
-----"." \r\n",FILE_APPEND);

echo "<script>alert('{$_POST['type']} operation succeeded')</script>";
echo "<script language='\"javascript\"'>location.href=location.href;</script>";
exit();
}

function existItemID($conn){
    $sql = "select count(1) as count from socks where `ItemID`='{$_POST['ItemID']}'";
    $retval = mysqli_query( $conn, $sql );

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if(!$retval)
{
    die('mysqli_error: ' . mysqli_error($conn));
}
$socks = mysqli_fetch_array($retval,MYSQLI_ASSOC);
if($socks['count'] < 1){

    echo "<script>alert('Please input correct ItemID')</script>";
    echo "<script language=\"javascript\">location.href=location.href;</script>";
    exit();
}
}
?>
</html>
```