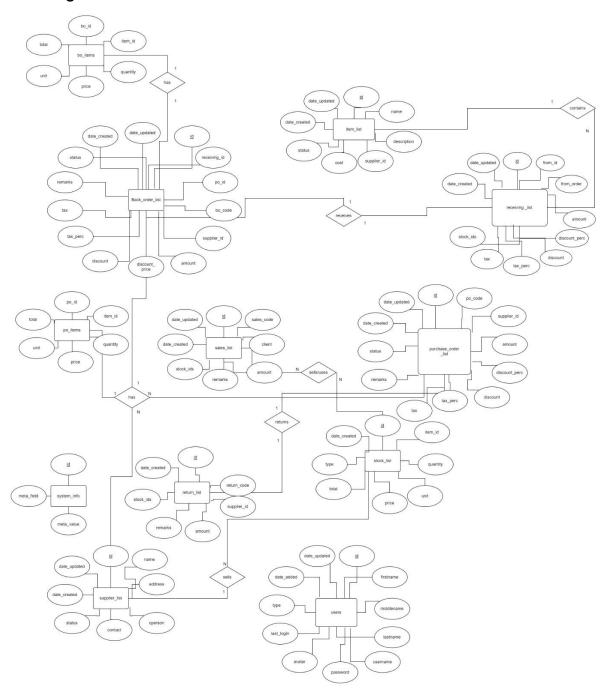
Database Management Systems Project Report

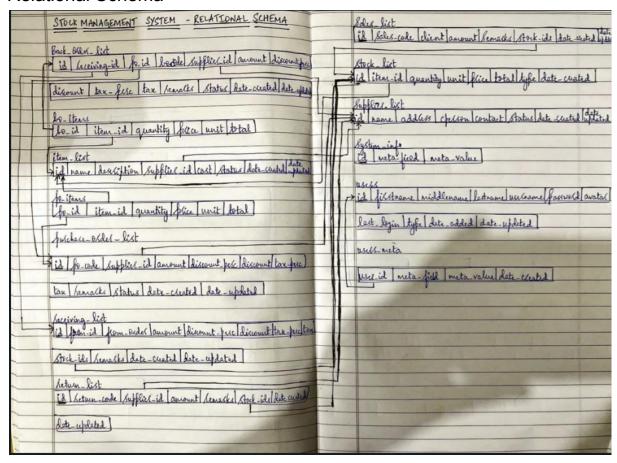
Rashmi J PES1UG21CS480 5 H Raghav S PES1UG21CS469 5 H

Stock Management System

E-R Diagram



Relational Schema



Queries

```
PES1UG21CS480> CREATE TABLE `back_order_list` (

-> `id` int(30) NOT NULL,

-> `receiving_id` int(30) NOT NULL,

-> `po_id` int(30) NOT NULL,

-> `bo_code` varchar(50) NOT NULL,

-> `supplier_id` int(30) NOT NULL,

-> `amount` float NOT NULL,

-> `discount_perc` float NOT NULL DEFAULT 0,

-> `discount` float NOT NULL DEFAULT 0,

-> `tax_perc` float NOT NULL DEFAULT 0,

-> `tax' float NOT NULL DEFAULT 0,

-> `remarks` text DEFAULT NULL,

-> `status` tinyint(4) NOT NULL DEFAULT 0 COMMENT '0 = pending, 1 = partially received, 2 = received',

-> `date_created' datetime NOT NULL DEFAULT current_timestamp(),

-> `date_updated` datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()

-> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Query OK, 0 rows affected, 5 warnings (0.05 sec)
```

```
PES1UG21CS480> desc back_order_list;
 Field
                  | Type
                                  | Null | Key | Default
                                                                       | Extra
 receiving_id
                                    NO
                                                  NULL
                    int
                                    NO
                                                   NULL
  po_id
                    varchar(50)
  bo_code
                                    NO
                                                  NULL
  supplier_id
                    int
                                    NO
                                                  NULL
                                   NO
NO
NO
  amount
                    float
                                                  NULL
  discount_perc |
                    float
                                                  0
 discount
                    float
  tax_perc
                    float
                                                  0
                                   NO
 tax
                    float
                                                  0
 remarks
                                    YES
                                                  NULL
                    text
                   tinyint
                                   NO
 status
                                                  CURRENT_TIMESTAMP | DEFAULT_GENERATED
CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
 date_created
date_updated
                                    NO
                    datetime
                  datetime
14 rows in set (0.00 sec)
PES1UG21CS480>
```

```
PES1UG21CS480> INSERT INTO 'back_order_list' ('id', 'receiving_id', 'po_id', 'bo_code', 'supplier_id', 'amount', 'discount_perc', 'di scount', 'tax_perc', 'tax', 'remarks', 'status', 'date_created', 'date_updated') VALUES

-> (1, 1, 1, 'B0-0001', 1, 40740, 3, 1125, 12, 4365, NULL, 1, '2021-11-03 11:20:38', '2021-11-03 11:20:51'),

-> (2, 2, 1, 'B0-0002', 1, 20370, 3, 562.5, 12, 2182.5, NULL, 2, '2021-11-03 11:20:51', '2021-11-03 11:21:00'),

-> (3, 4, 2, 'B0-0003', 2, 42826, 5, 2012.5, 12, 4588.5, NULL, 1, '2021-11-03 11:51:41', '2021-11-03 11:52:02'),

-> (4, 5, 2, 'B0-0004', 2, 10640, 5, 500, 12, 1140, NULL, 2, '2021-11-03 11:52:02', '2021-11-03 11:52:15');

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0
```

reated	date_update	ed _	i '' -		discount_perc				remarks		
+-		· 									
1		BO-0001	1	40740	3	1125	12	4365	NULL	1	2021
1-03 11:20:38	2021-11-03										
		B0-0002	1	20370	3	562.5	12	2182.5	NULL	2	2021
1-03 11:20:51			l								
3	4 2	B0-0003	2	42826	5	2012.5	12	4588.5	NULL	1	2021
1-03 11:51:41	2021-11-03	11:52:02									
4	5 2	B0-0004	2	10640	5	500	12	1140	NULL	2	2021
.1-03 11:52:02	2021-11-03	11:52:15	l								

Back_order_list Bo items

```
PES1UG21CS480> CREATE TABLE `bo_items` (
   -> `bo_id` int(30) NOT NULL,
   -> `item_id` int(30) NOT NULL,
   -> `quantity` int(30) NOT NULL,
   -> `price` float NOT NULL DEFAULT 0,
   -> `unit` varchar(50) NOT NULL,
   -> `total` float NOT NULL DEFAULT 0
   -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 3 warnings (0.03 sec)
```

```
PES1UG21CS480> desc bo_items;
                            Null | Key | Default |
  Field
             Type
                                                    Extra
  bo_id
                                          NULL
             int
                            NO
 item_id
                                          NULL
             int
                            NO
  quantity
             int
                            NO
                                          NULL
  price
             float
                            NO
                                          0
  unit
             varchar(50)
                            NO
                                          NULL
             float
  total
                            NO
                                          0
6 rows in set (0.00 sec)
```

```
PES1UG21CS480> INSERT INTO 'bo_items' ('bo_id', 'item_id', 'quantity', 'price', 'unit', 'total') VALUES
-> (1, 1, 250, 150, 'pcs', 37500),
-> (2, 1, 125, 150, 'pcs', 18750),
-> (3, 2, 150, 200, 'Boxes', 30000),
-> (3, 4, 50, 205, 'pcs', 10250),
-> (4, 2, 50, 200, 'Boxes', 10000);
Query Ok, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

PES1UG210	PES1UG21CS480> select * from bo_items;									
bo_id	item_id	quantity	price	unit	total					
1 2 3 1 3 4	1 1 2 4	250 125 150 50 50	150 150 200 205		37500 18750 30000 10250 10000					
+5 rows i	+++++++ 5 rows in set (0.00 sec)									

Item_list

```
PES1UG21CS480> CREATE TABLE 'item_list' (
                    `id` int(30) NOT NULL,
`name` text NOT NULL,
                   'description' text NOT NULL,
'supplier_id' int(30) NOT NULL,
'cost' float NOT NULL DEFAULT 0,
'status' tinyint(1) NOT NULL DEFAULT 1,
'date_created' datetime NOT NULL DEFAULT current_timestamp(),
'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()
         -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
 Query OK, 0 rows affected, 3 warnings (0.04 sec)
 PES1UG21CS480> desc item_list;
                                                      | Null | Key | Default
 | Field
                             | Type
                                                                                                                    | Extra
                                                                                  NULL
                                                         NO
                                                                                  NULL
                                text
    name
    description
                                                         NO
                                                                                  NULL
                                text
    supplier_id
                                int
                                                         NO
                                                                                  NULL
    cost
                                float
                                                         NO
                                tinyint(1)
                                                         NO
    status
                                                                                 CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
    date_created
                                datetime
                                                         NO
                                                                                                                       DEFAULT_GENERATED
    date_updated | datetime
                                                         NO
                                                                                                                       DEFAULT_GENERATED on update CURRENT_TIMESTAMP
 8 rows in set (0.00 sec)
 PES1UG21CS480> INSERT INTO `item_list` (`id`, `name`, `description`, `supplier_id`, `cost`, `status`, `date_created`, `date_updated`)
PESIGZICS480> INSER! INTO 'item_list' ('id', 'name', 'description', 'supplier_id', 'cost', 'ste VALUES 
-> (1, 'Item 101', 'Sample Only', 1, 150, 1, '2021-11-02 10:01:55', '2021-11-02 10:01:55'), 
-> (2, 'Item 102', 'Sample only', 2, 200, 1, '2021-11-02 10:02:12', '2021-11-02 10:02:12'), 
-> (3, 'Item 103', 'Sample', 1, 185, 1, '2021-11-02 10:02:27', '2021-11-02 10:02:27'), 
-> (4, 'Item 104', 'Sample only', 2, 205, 1, '2021-11-02 10:02:47', '2021-11-02 10:02:47'); 
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
 PES1UG21CS480> select * from item_list;
                         | description | supplier_id | cost | status | date_created
 | id | name
                                                                                                                                 | date updated
    1 | Item 101 | Sample Only
2 | Item 102 | Sample only
3 | Item 103 | Sample
4 | Item 104 | Sample only
                                                                                                 2021-11-02 10:01:55 |
2021-11-02 10:02:12 |
2021-11-02 10:02:27 |
                                                                                                                                    2021-11-02 10:01:55
2021-11-02 10:02:12
2021-11-02 10:02:27
                                                                          150
                                                                          200
185
                                                                          205
                                                                                                 2021-11-02 10:02:47
                                                                                                                                   2021-11-02 10:02:47
 4 rows in set (0.00 sec)
PES1UG21CS480>
```

Po items

```
PES1UG21CS480> CREATE TABLE 'po_items' (
             `po_id` int(30) NOT NULL,
            `item_id` int(30) NOT NULL,
      ->
            'quantity' int(30) NOT NULL,
      ->
            'price' float NOT NULL DEFAULT 0,
      ->
            'unit' varchar(50) NOT NULL,
            'total' float NOT NULL DEFAULT 0
      -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 3 warnings (0.03 sec)
 PES1UG21CS480> desc po_items;
                Type
                                  Null | Key | Default | Extra
  Field
   po_id
                 int
                                   NO
                                                    NULL
   item_id
                 int
                                   NO
                                                    NULL
   quantity
                 int
                                   NO
                                                    NULL
   price
                 float
                                   NO
                                                    0
   unit
                 varchar(50)
                                   NO
                                                    NULL
   total
                float
                                   NO
6 rows in set (0.00 sec)
PES1UG21CS480> INSERT INTO 'po_items' ('po_id', 'item_id', 'quantity', 'price', 'unit', 'total') VALUES
-> (1, 1, 500, 150, 'pcs', 75000),
-> (2, 2, 300, 200, 'Boxes', 60000),
-> (2, 4, 200, 205, 'pcs', 41000);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
PES1UG21CS480> select * from po_items;
              item_id | quantity | price |
  po_id |
                                                       unit
                                                                   total
                                                                   75000
                                   500
                                               150
                                                        pcs
        2
                      2
                                   300
                                               200
                                                       Boxes
                                                                   60000
        2
                      4
                                   200
                                               205
                                                                   41000
                                                       pcs
 rows in set (0.00 sec)
```

```
PES1UG21CS480> CREATE TABLE 'purchase_order_list' (
-> 'id' int(30) NOT NULL,
-> 'po_code' varchar(50) NOT NULL,
-> 'supplier_id' int(30) NOT NULL,
-> 'amount' float NOT NULL,
                `discount_perc` float NOT NULL DEFAULT 0,
`discount` float NOT NULL DEFAULT 0,
`tax_perc` float NOT NULL DEFAULT 0,
                 'tax' float NOT NULL DEFAULT 0,
       -> 'tax *toat NOT NOLL DEFAULT 0,
-> 'remarks' text NOT NULL,
-> 'status' tinyint(4) NOT NULL DEFAULT 0 COMMENT '0 = pending, 1 = partially received, 2 =received',
-> 'date_created' datetime NOT NULL DEFAULT current_timestamp(),
-> 'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()
-> DENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
 Query OK, 0 rows affected, 3 warnings (0.03 sec)
 PES1UG21CS480> desc purchase_order_list;
 | Field
                               | Type
                                                         | Null | Key | Default
                                                                                                                        | Extra
    id
                                  int
                                                                                      NULL
   po_code
                                  varchar(50)
                                                             NO
                                                                                      NULL
    supplier_id
                                  int
                                                             NO
                                                                                      NULL
     amount
                                  float
                                                             NO
                                                                                     NULL
    discount_perc
                                  float
                                                             NO
                                                                                     0
    discount
                                  float
                                                             NO
                                                                                     Θ
    tax_perc
                                  float
                                                            NO
                                                                                     Θ
    tax
                                  float
                                                            NO
                                                                                      Θ
                                                            NO
    remarks
                                  text
                                                                                     NULL
                                  tinyint
    status
                                                            NO
                                                                                     Θ
                                                                                     CURRENT_TIMESTAMP | DEFAULT_GENERATED
CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
    date_created
                                 datetime
                                                            NO
    date_updated
                                 datetime
                                                            NO
 12 rows in set (0.01 sec)
PES1UG21CS480> INSERT INTO 'purchase_order_list' ('id', 'po_code', 'supplier_id', 'amount', 'discount_perc', 'discount', 'tax_perc', 'tax', 'remarks', 'status', 'date_created', 'date_updated') VALUES

-> (1, 'PO-0001', 1, 81480, 3, 2250, 12, 8730, 'Sample', 2, '2021-11-03 11:20:22', '2021-11-03 11:21:00'),

-> (2, 'PO-0002', 2, 107464, 5, 5050, 12, 11514, 'Sample PO Only', 2, '2021-11-03 11:50:50', '2021-11-03 11:52:15');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
PES1UG21CS480> select * from purchase_order_list;
 | id | po_code | supplier_id | amount | discount_perc | discount | tax_perc | tax | remarks
date_updated |
                                                                                                                                                                | status | date_created
 1 | PO-0001 |
2021-11-03 11:21:00 |
2 | PO-0002 |
2021-11-03 11:52:15 |
                                                                                                                                                                          2 | 2021-11-03 11:20:22 |
                                          1 | 81480 |
                                                                                              2250 |
                                                                                                                   12 | 8730 | Sample
                                          2 | 107464 |
                                                                                  5 |
                                                                                              5050 I
                                                                                                                   12 | 11514 | Sample PO Only |
                                                                                                                                                                          2 | 2021-11-03 11:50:50 |
2 rows in set (0.00 sec)
PES1UG21CS480> |
```

Receiving_order

```
PES1UG21CS480> CREATE TABLE 'receiving_list' (

-> 'id' int(30) NOT NULL,

-> 'from_id' int(30) NOT NULL,

-> 'from_order' tinyint(1) NOT NULL DEFAULT 1 COMMENT '1=PO ,2 = BO',

-> 'amount' float NOT NULL DEFAULT 0,

-> 'discount_perc' float NOT NULL DEFAULT 0,

-> 'discount' float NOT NULL DEFAULT 0,

-> 'tax_perc' float NOT NULL DEFAULT 0,

-> 'tax' float NOT NULL DEFAULT 0,

-> 'stock ids' text DEFAULT NULL.
                 'tax' float NOT NOLL DEFAULT OULL,
'stock_ids' text DEFAULT NULL,
'remarks' text DEFAULT NULL,
'date_created' datetime NOT NULL DEFAULT current_timestamp(),
'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()
              ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
  Query OK, 0 rows affected, 3 warnings (0.03 sec)
  PES1UG21CS480> desc receiving_list;
                                 | Type
  | Field
                                                          | Null | Key | Default
                                                                                                                          | Extra
     id
                                    int
                                                                                      NULL
     from_id
                                    int
                                                             NO
                                                                                       NULL
     from_order
                                    tinyint(1)
                                                             NO
                                    float
     amount
                                                             NO
     discount_perc |
                                    float
                                                             NO
     discount
                                    float
                                                             NO
                                                                                      0
                                                                                      0
     tax_perc
                                    float
                                                             NO
                                   float
     tax
                                                             NO
                                                                                      0
     stock_ids
                                    text
                                                             YES
                                                                                      NULL
                                                             YES
     remarks
                                   text
                                                                                      NULL
                                                                                      CURRENT_TIMESTAMP | DEFAULT_GENERATED
CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
                                | datetime
| datetime
     date_created
                                                             NO
     date_updated
                                                            NO
  12 rows in set (0.00 sec)
 PES1UG21CS480> INSERT INTO 'receiving_list' ('id', 'from_id', 'from_order', 'amount', 'discount_perc', 'discount', 'tax_perc', 'tax 'stock_ids', 'remarks', 'date_created', 'date_updated') VALUES

-> (1, 1, 1, 40740, 3, 1125, 12, 4365, '1', 'Sample', '2021-11-03 11:20:38', '2021-11-03 11:20:38'),
-> (2, 1, 2, 20370, 3, 562.5, 12, 2182.5, '2', '', '2021-11-03 11:20:51', '2021-11-03 11:20:51'),
-> (3, 2, 2, 20370, 3, 562.5, 12, 2182.5, '3', 'Success', '2021-11-03 11:21:00', '2021-11-03 11:21:00'),
-> (4, 2, 1, 64638, 5, 3037.5, 12, 6925.5, '4,5', 'Sample Receiving (Partial)', '2021-11-03 11:51:41', '2021-11-03 11:51:41',
-> (5, 3, 2, 32186, 5, 1512.5, 12, 3448.5, '6,7', 'BO Receive (Partial)', '2021-11-03 11:52:02', '2021-11-03 11:52:02'),
-> (6, 4, 2, 16640, 5, 500, 12, 1140, '8', 'Sample Success', '2021-11-03 11:52:15', '2021-11-03 11:52:15');
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0
                                                                                                     'from_order', 'amount', 'discount_perc', 'discount', 'tax_perc', 'tax',
 PES1UG21CS480> select * from receiving_list;
 l date c
12 | 4365 | 1
                                                                                                                                                            | Sample
                                                                                                                                                                                                           l 2021-1
                                                                                                                  12 | 2182.5 | 2
                                                                                  3 | 562.5 |
                                                                                                                                                                                                           | 2021-1
                                                                                  3 | 562.5 |
                                                                                                                   12 | 2182.5 | 3
                                                                                                                                                            Success
                                                                                                                                                                                                           l 2021-1
                                                                                   5 | 3037.5 |
                                                                                                                   12 | 6925.5 | 4,5
                                                                                                                                                            | Sample Receiving (Partial) | 2021-1
                                                                                   5 | 1512.5 |
                                                                                                                     12 | 3448.5 | 6,7
                                                                                                                                                            | BO Receive (Partial)
                                                                                                                                                                                                         | 2021-1
                                                                                   5 |
                                                                                               500 |
                                                                                                                    12 | 1140 | 8
                                                                                                                                                            | Sample Success
                                                                                                                                                                                                          2021-1
 6 rows in set (0.00 sec)
 PES1UG21CS480>
```

```
PES1UG21CS480> CREATE TABLE 'return_list' (

-> 'id' int(30) NOT NULL,

-> 'return_code' varchar(50) NOT NULL,

-> 'supplier_id' int(30) NOT NULL,

-> 'amount' float NOT NULL DEFAULT 0,

-> 'remarks' text DEFAULT NULL,

-> 'stock_ids' text NOT NULL,

-> 'date_created' datetime NOT NULL DEFAULT current_timestamp(),

-> 'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()

-> 'BNGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Query OK, 0 rows affected, 2 warnings (0.03 sec)
 PES1UG21CS480> desc return_list;
                                                       Null | Key | Default
    Field
                            | Type
                                                                                                                | Extra
    id
                               int
                                                                                NULL
                                                        NO
                                                        NO
                                                                                NULL
    return_code
                               varchar(50)
    supplier_id
                                                        NO
                               int
                                                                               NULL
                               float
                                                        NO
                                                                                0
    amount
    remarks
                               text
                                                        YES
                                                                                NULL
    stock_ids
                               text
                                                        NO
                                                                                NULL
    date_created
                               datetime
                                                        NO
                                                                                CURRENT_TIMESTAMP
                                                                                                                    DEFAULT_GENERATED
                                                                               CURRENT_TIMESTAMP | CURRENT_TIMESTAMP |
    date_updated
                               datetime
                                                        NO
                                                                                                                   DEFAULT_GENERATED on update CURRENT_TIMESTAMP
 8 rows in set (0.00 sec)
 PES1UG21CS480>
 PES1UG21CS480> INSERT INTO `return_list` (`id`, `return_code`, `supplier_id`, `amount`, `remarks`, `stock_ids`, `date_created`, `date_updated`) VALUES
-> (1, 'R-0001', 2, 3025, 'Sample Issue', '16,17', '2021-11-03 13:45:53', '2021-11-03 13:45:53');
Query OK, 1 row affected (0.01 sec)
 PES1UG21CS480> select * from return_list;
   id | return_code | supplier_id | amount | remarks
                                                                                      | stock_ids | date_created
                                                                                                                                           date_updated
     1 | R-0001
                                               2
                                                        3025 | Sample Issue | 16,17
                                                                                                        | 2021-11-03 13:45:53 | 2021-11-03 13:45:53 |
  1 row in set (0.00 sec)
  PES1UG21CS480>
```

```
PES1UG21CS480> CREATE TABLE `sales_list` (
             'id' int(30) NOT NULL,

'sales_code' varchar(50) NOT NULL,

'client' text DEFAULT NULL,

'amount' float NOT NULL DEFAULT 0,

'remarks' text DEFAULT NULL,
              `stock_ids` text NOT NULL,
             'date_created' datetime NOT NULL DEFAULT current_timestamp(),
'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()
 -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 1 warning (0.03 sec)
 PES1UG21CS480> desc sales_list;
                                            | Null | Key | Default
                                                                                               Extra
 | Field
                       | Type
   id
                          int
                                                                  NULL
                          varchar(50)
   sales_code
                                              NO
                                                                  NULL
                                                                  NULL
   client
                          text
                                               YES
                          float
   amount
                                                                  0
                                                                  NULL
   remarks
                          text
                                              YES
   stock_ids
                                              NO
                          text
                                                                  NULL
                                                                  CURRENT_TIMESTAMP
                                                                                               DEFAULT_GENERATED
   date_created
                         datetime
                                              NO
   date_updated | datetime
                                                                                               DEFAULT_GENERATED on update CURRENT_TIMESTAMP
                                              NO
                                                                  CURRENT_TIMESTAMP |
 8 rows in set (0.00 sec)
 PES1UG21CS480>
PES1UG21CS480> INSERT INTO `sales_list` (`id`, `sales_code`, `client`, `amount`, `remarks`, `stock_ids`, `date_created`, `date_update d`) VALUES
-> (1, 'SALE-0001', 'John Smith', 7625, 'Sample Remarks', '24,25,26', '2021-11-03 14:03:30', '2021-11-03 14:08:27');
Query OK, 1 row affected (0.01 sec)
 PES1UG21CS480> select * from sales_list;
 | id | sales_code | client
                                      | amount | remarks
                                                                       | stock_ids | date_created
                                                                                                                 | date_updated
   1 | SALE-0001 | John Smith |
                                           7625 | Sample Remarks | 24,25,26 | 2021-11-03 14:03:30 | 2021-11-03 14:08:27 |
 1 row in set (0.00 sec)
PES1UG21CS480>
```

Stock list

```
PES1UG21CS480> CREATE TABLE 'stock_list' (
                          'id' int(30) NOT NULL,
                          `item_id` int(30) NOT NULL,
                          'quantity' int(30) NOT NULL,
                          `unit` varchar(250) DEFAULT NULL,
`price` float NOT NULL DEFAULT 0,
`type` tinyint(1) NOT NULL DEFAULT 1 COMMENT '1=IN , 2=OUT'
           ->
                          'date_created' datetime NOT NULL DEFAULT current_timestamp(),
           ->
                          'total' float GENERATED ALWAYS AS (quantity * price) STORED,
           ->
                          PRIMARY KEY ('id')
           -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
   Query OK, 0 rows affected, 4 warnings (0.02 sec)
   PES1UG21CS480> desc stock_list;
   | Field
                                   | Type
                                                                  | Null | Key | Default
                                                                                                                                          Extra
       id
                                       int
                                                                     NO
                                                                                    PRI
                                                                                                 NULL
       item_id
                                       int
                                                                                                 NULL
       quantity
                                      int
                                                                     NO
                                                                                                 NULL
      unit
                                      varchar(250)
                                                                     YES
                                                                                                 NULL
       price
                                      float
                                                                     NO
                                                                                                 0
       type
                                      tinyint(1)
                                                                     NO
                                                                                                 1
                                      datetime
                                                                     NO
                                                                                                 CURRENT_TIMESTAMP |
                                                                                                                                          DEFAULT_GENERATED
       date_created
     total
                                     float
                                                                     YES
                                                                                                 NULL
                                                                                                                                         STORED GENERATED
   8 rows in set (0.00 sec)
   PES1UG21CS480>
PES1UG21CS480> INSERT INTO `stock_list` ('id', 'item_id', 'c -> (1, 1, 250, 'pcs', 150, 1, '2021-11-03 11:20:38'), -> (2, 1, 125, 'pcs', 150, 1, '2021-11-03 11:20:51'), -> (3, 1, 125, 'pcs', 150, 1, '2021-11-03 11:21:00'), -> (4, 2, 150, 'Boxes', 200, 1, '2021-11-03 11:51:41'), -> (5, 4, 150, 'pcs', 205, 1, '2021-11-03 11:51:41'), -> (6, 2, 100, 'Boxes', 200, 1, '2021-11-03 11:52:02'), -> (7, 4, 50, 'pcs', 205, 1, '2021-11-03 11:52:02'), -> (8, 2, 50, 'Boxes', 200, 1, '2021-11-03 11:52:15'), -> (16, 2, 10, 'pcs', 200, 2, '2021-11-03 13:45:53'), -> (17, 4, 5, 'boxes', 205, 2, '2021-11-03 13:45:53'), -> (24, 1, 10, 'pcs', 150, 2, '2021-11-03 14:08:27'), -> (25, 2, 5, 'pcs', 200, 2, '2021-11-03 14:08:27'), -> (26, 4, 25, 'boxes', 205, 2, '2021-11-03 14:08:27'), (uery OK, 13 rows affected (0.00 sec)

Records: 13 Duplicates: 0 Warnings: 0
                                                                                         'quantity', 'unit', 'price', 'type', 'date_created') VALUES
```

++ id	item_id	quantity	 unit	 price	type	date_created	+ total
++ 1	 1	250	pcs	+ 150	 l 1	+ 2021-11-03 11:20:38	+ 37500
i	1	125	pcs	150	1	2021-11-03 11:20:51	18750
ј з ј	1	125	pcs	150	1	2021-11-03 11:21:00	18750
4	2	150	Boxes	200	1	2021-11-03 11:51:41	30000
5	4	150	pcs	205	1	2021-11-03 11:51:41	30750
6	2	100	Boxes	200	1	2021-11-03 11:52:02	20000
7	4	50	pcs	205	1	2021-11-03 11:52:02	10250
8	2	50	Boxes	200	1	2021-11-03 11:52:15	10000
16	2	10	pcs	200	2	2021-11-03 13:45:53	2000
17	4	5	boxes	205	2	2021-11-03 13:45:53	1025
24	1	10	pcs	150	2	2021-11-03 14:08:27	!
25	2	5	pcs	200	2	2021-11-03 14:08:27	:
26	4	25	boxes	205	2	2021-11-03 14:08:27	5125
++	·		l	+	H	H	+
13 row	s in set ((0.00 sec)					
	21CS480>						

Supplier_list

```
PES1UG21CS480> CREATE TABLE `supplier_list` (
    ->    `id` int(30) NOT NULL,
            'id' int(30) NOT NULL,

'name' text NOT NULL,

'address' text NOT NULL,

'cperson' text NOT NULL,

'contact' text NOT NULL,

'status' tinyint(1) NOT NULL DEFAULT 1,

'date_created' datetime NOT NULL DEFAULT current_timestamp(),

'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()

FNGINE=InnoDB DEFAULT CHARSET=utf8mb4;
      ->
      ->
      ->
      ->
      ->
      -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 2 warnings (0.02 sec)
PES1UG21CS480> desc supplier_list;
  Field
                                              Null | Key | Default
                                                                                              | Extra
                        | Type
   id
                          int
                                                                  NULL
   name
                          text
                                              NO
                                                                  NULL
   address
                          text
                                              NO
                                                                  NULL
   cperson
                          text
                                              NO
                                                                  NULL
   contact
                          text
                                              NO
                                                                  NULL
                          tinyint(1)
   status
                                              NO
                                                                 CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
   date_created
                          datetime
                                              NO
                                                                                                DEFAULT_GENERATED
                                                                                                DEFAULT_GENERATED on update CURRENT_TIMESTAMP
   date_updated
                       | datetime
                                              NO
8 rows in set (0.01 sec)
PES1UG21CS480> INSERT INTO `supplier_list` (`id`, `name`, `address`, `cperson`, `contact`, `status`, `date_created`, `date_updated`)
VALUES
VALUES
-> (1, 'Supplier 101', 'Sample Supplier Address 101', 'Supplier Staff 101', '09123456789', 1, '2021-11-02 09:36:19', '09136:19'),
-> (2, 'Supplier 102', 'Sample Address 102', 'Supplier Staff 102', '0987654332', 1, '2021-11-02 09:36:54', '2021-11-02 09:36:54')
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
PES1UG21CS480> select * from supplier_list;
| id |
         name
                         address
                                                               cperson
                                                                                          | contact
                                                                                                           | status | date_created
                                                                                                                                                   | date_updated
| 1
6:19
         Supplier 101 | Sample Supplier Address 101 | Supplier Staff 101 | 09123456789 |
                                                                                                                    1 | 2021-11-02 09:36:19 | 2021-11-02 09:3
2
6:54
         Supplier 102 | Sample Address 102
                                                               | Supplier Staff 102 | 0987654332 |
                                                                                                                    1 | 2021-11-02 09:36:54 | 2021-11-02 09:3
2 rows in set (0.00 sec)
PES1UG21CS480>
```

System_info

```
PES1UG21CS480> CREATE TABLE 'system_info' (
                'id' int(30) NOT NULL,
                `meta_field` text NOT NULL,
                'meta_value' text NOT NULL
       -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 1 warning (0.03 sec)
PES1UG21CS480> desc system_info;
                                      Null | Key | Default |
    Field
                          Type
    id
                          int
                                      NO
                                                             NULL
    meta_field
                                                             NULL
                          text
                                      NO
    meta_value
                                      NO
                                                             NULL
                          text
 3 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> INSERT INTO `system_info` (`id`, `meta_field`, <u>`meta_value`) VALUES</u>
-> (1, 'name', 'Stock Management System - PHP'),
-> (6, 'short_name', 'SMS- PHP'),
-> (11, 'logo', 'uploads/logo-1635816671.png'),
-> (13, 'user_avatar', 'uploads/user_avatar.jpg'),
-> (14, 'cover', 'uploads/cover-1635816671.png'),
-> (15, 'content', 'Array');

Query OK, 6 rows affected (0.01 sec)

Pecords: 6 Duplicator: 0 Warrings: 0
Records: 6 Duplicates: 0 Warnings: 0
PES1UG21CS480> select * from system_info;
| id | meta_field
                     | meta_value
                       Stock Management System - PHP
       name
                       SMS- PHP
       short_name
  11
        logo
                       uploads/logo-1635816671.png
                       uploads/user_avatar.jpg
  13
       user_avatar
  14
                       uploads/cover-1635816671.png
       cover
  15
       content
                       Array
6 rows in set (0.00 sec)
PES1UG21CS480>
```

Users

```
PES1UG21CS480> CREATE TABLE 'users' (
              `id` int(50) NOT NULL,
`firstname` varchar(250) NOT NULL,
`middlename` text DEFAULT NULL,
       ->
              `lastname` varchar(250) NOT NULL,
       ->
               `username` text NOT NULL,
       ->
               'password' text NOT NULL,
               `avatar` text DEFAULT NULL
       ->
              `last_login` datetime DEFAULT NULL,
               `type` tinyint(1) NOT NULL DEFAULT 0
       ->
               'date_added' datetime NOT NULL DEFAULT current_timestamp(),
               'date_updated' datetime DEFAULT NULL ON UPDATE current_timestamp()
       ->
      -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected, 2 warnings (0.03 sec)
PES1UG21CS480> desc users;
 | Field
                         | Type
                                                  | Null | Key | Default
                                                                                                       Extra
   id
                            int
                                                                         NULL
   firstname
                            varchar(250)
                                                    NO
                                                                         NULL
   middlename
                            text
                                                    YES
                                                                         NULL
                                                    NO
                                                                         NULL
   lastname
                            varchar(250)
   username
                            text
                                                    NO
                                                                         NULL
   password
                            text
                                                    NO
                                                                         NULL
   avatar
                            text
                                                    YES
                                                                         NULL
                                                    YES
   last_login
                           datetime
                                                                         NULL
    type
                            tinyint(1)
                                                    NO
                                                                         0
                           datetime
                                                                         CURRENT_TIMESTAMP
                                                                                                         DEFAULT_GENERATED
   date_added
                                                    NO
   date_updated | datetime
                                                    YES
                                                                                                          on update CURRENT_TIMESTAMP
11 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> INSERT INTO 'users' ('id', 'firstname', 'middlename', 'lastname', 'username', 'password', 'avatar', 'last_login', 'type', 'date_added', 'date_updated') VALUES
--> (1, 'Adminstrator', NULL, 'Admin', 'admin', '0192023a7bbd73250516f069df18b500', 'uploads/avatar-1.png?v=1635556826', NULL, 1,
'2021-01-20 14:02:37', '2021-10-30 09:20:26'),
-> (10, 'John', NULL, 'Smith', 'jsmith', '39ce7e2a8573b41ce73b5ba41617f8f7', 'uploads/avatar-10.png?v=1635920488', NULL, 2, '2021-11-03 14:21:28', '2021-11-03 14:21:28'),
-> (11, 'Claire', NULL, 'Blake', 'cblake', 'cd74fae0a3adf459f73bbf187607ccea', 'uploads/avatar-11.png?v=1635920566', NULL, 1, '20 21-11-03 14:22:46', '2021-11-03 14:22:46');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
PES1UG21CS480> select * from users:
| id | firstname | middl
_login | type | date_added
                    | middlename | lastname | username | password
ate_added | date_updated |
                                                                                                       | avatar
                                                                                                                                                 | last
3 rows in set (0.00 sec)
```

```
PES1UG21CS480> ALTER TABLE 'back_order_list'

-> ADD PRIMARY KEY ('id'),

-> ADD KEY 'supplier_id' ('supplier_id'),

-> ADD KEY 'po_id' ('po_id'),

-> ADD KEY 'receiving_id' ('receiving_id');

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc back_order_list;
                             | Null | Key | Default
                                                            | Extra
               | Type
  receiving_id
                              NO
                                     MUL
                                          NULL
  po_id
                 int
                              NO
                                    MUL
                                          NULL
                 varchar(50)
  bo_code
                              NO
                                          NULL
                                    MUL
  supplier_id
                 int
                              NO
                                          NULL
  amount
                 float
                              NO
                                          NULL
  discount_perc
                              NO
                 float
                                          0
                 float
                              NO
  discount
                                          0
                              NO
                 float
  tax_perc
                                          0
                              NO
                 float
  tax
                                          0
  remarks
                                          NULL
                              YES
                 text
                 tinyint
                              NO
  status
                                          CURRENT_TIMESTAMP
CURRENT_TIMESTAMP
                                                             DEFAULT_GENERATED
DEFAULT_GENERATED on update CURRENT_TIMESTAMP
  date_created
                 datetime
                              NO
  date_updated
                 datetime
14 rows in set (0.00 sec)
 PES1UG21CS480> ALTER TABLE 'bo_items'
                 ADD KEY 'item_id' ('item_id'),
                 ADD KEY 'bo_id' ('bo_id');
 Query OK, 0 rows affected (0.06 sec)
 Records: 0 Duplicates: 0 Warnings: 0
 PES1UG21CS480> desc bo_items;
    Field
                                                Null | Key | Default
                                                                                       Extra
                        Type
   bo_id
                                                 NO
                                                              MUL
                                                                         NULL
                        int
    item_id
                                                              MUL
                                                                         NULL
                        int
                                                 NO
    quantity
                        int
                                                 NO
                                                                         NULL
                        float
    price
                                                 NO
                                                                         0
                        varchar(50)
    unit
                                                                         NULL
                                                 NO
                        float
    total
                                                 NO
                                                                         0
 6 rows in set (0.00 sec)
 PES1UG21CS480>
```

```
PES1UG21CS480> ALTER TABLE 'item_list'
-> ADD PRIMARY KEY ('id'),
-> ADD KEY 'supplier_id' ('supplier_id');
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc item_list;
 | Field
                        | Type
                                             | Null | Key | Default
                                                                                                 | Extra
  id
                                                           PRI
                                                                    NULL
                           int
                                                NO
                                               NO
                                                                    NULL
   name
                           text
   description
                           text
                                               NO
                                                                    NULL
   supplier_id
                                                                    NULL
                                               NO
                                                           MUL
                          int
                          float
                                               NO
   cost
  status | tinyint(1)
date_created | datetime
date_updated | datetime
                                               NO
                                                                    CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
                                                                                                   DEFAULT_GENERATED
DEFAULT_GENERATED on update CURRENT_TIMESTAMP
                                               NO
                                               NO
8 rows in set (0.00 sec)
```

PES1UG21CS480>

```
PES1UG21CS480> ALTER TABLE 'po_items'
              ADD KEY 'po_id' ('po_id'),
              ADD KEY 'item_id' ('item_id');
       ->
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc po_items;
   Field
                                           Null | Key | Default | Extra
                    Type
   po_id
                     int
                                           NO
                                                      MUL
                                                                NULL
   item_id
                    int
                                                      MUL
                                                                NULL
                                           NO
   quantity | int
                                                                NULL
                                           NO
   price
                    float
                                           NO
                                                                0
   unit
                    varchar(50)
                                           NO
                                                                NULL
                                                                0
   total
                    float
                                           NO
6 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE `purchase_order_list`
-> ADD PRIMARY KEY (`id`),
-> ADD KEY `supplier_id` (`supplier_id`);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc purchase_order_list;
                        | Null | Key |
 Field
             | Type
                                    Default
                                                   | Extra
                                    NULL
              varchar(50)
 po_code
                          NO
                                    NULL
                         NO
NO
NO
NO
                               MUL
 supplier_id
              int
                                    NULL
              float
                                    NULL
 amount
 discount_perc
                                    0
              float
 discount
              float
              float
 tax_perc
                                    0
                          NO
              float
                                    0
 tax
remarks
                         NO
                                    NULL
              text
              tinyint
                          NO
 status
```

NO

NO

datetime datetime

date_created

date_updated

PES1UG21CS480>

12 rows in set (0.00 sec)

CURRENT_TIMESTAMP | DEFAULT_GENERATED
CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP

```
PES1UG21CS480> ALTER TABLE `receiving_list`
-> ADD PRIMARY KEY (`id`);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc receiving_list;
| Field
                     | Type
                                      | Null | Key | Default
                                                                                   Extra
                        int
                                                 PRI
                                                         NULL
   from_id
                        int
                                                          NULL
                        tinyint(1)
  from_order
                        float
   amount
                                                         0
                        float
                                        NO
  discount_perc
                                        NO
NO
                        float
  discount
                        float
                                                         0
0
  tax_perc
                        float
                                        NO
  tax
  stock_ids
                                        YES
                                                         NULL
                        text
                                        YES
   remarks
                        text
                                                          NULL
                                        NO
NO
                                                          CURRENT_TIMESTAMP
                                                                                   DEFAULT_GENERATED
  date_created
                       datetime
                                                                                   DEFAULT_GENERATED on update CURRENT_TIMESTAMP
  date_updated
                     | datetime
                                                          CURRENT_TIMESTAMP |
12 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'return_list'
-> ADD PRIMARY KEY ('id'),
-> ADD KEY 'supplier_id' ('supplier_id');
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc return_list;
| Field
                                      | Null | Key | Default
                    | Type
                                                                                 | Extra
  id
                      int
                                                 PRI
                                                         NULL
  return_code
                      varchar(50)
                                        NO
                                                         NULL
  supplier_id
                                        NO
                                                 MUL
                                                         NULL
                      int
  amount
                      float
                                        NO
  remarks
                      text
                                        YES
                                                         NULL
  stock_ids
                      text
                                        NO
                                                         NULL
                                                                                   DEFAULT_GENERATED
DEFAULT_GENERATED on update CURRENT_TIMESTAMP
  date_created
                      datetime
                                        NO
                                                         CURRENT_TIMESTAMP
  date_updated
                      datetime
                                        NO
                                                         CURRENT_TIMESTAMP
8 rows in set (0.00 sec)
PES1UG21CS480>
```

```
PES1UG21CS480> ALTER TABLE `sales_list`
-> ADD PRIMARY KEY (`id`);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc sales_list;
| Field
                               | Null | Key | Default
                                                                 | Extra
                | Type
  id
                  int
                                        PRT
                                              NULL
  sales code
                  varchar(50)
                                NO
                                              NULL
                                YES
                                              NULL
  client
                  text
                  float
  amount
                                NO
                                              Θ
                                              NULL
                                YES
  remarks
                  text
  stock_ids
                  text
                                NO
                                              NULL
                 datetime
                                              CURRENT_TIMESTAMP
                                                                   DEFAULT_GENERATED
  date_created
                                NO
                                NO
                                                                  DEFAULT_GENERATED on update CURRENT_TIMESTAMP
  date_updated | datetime
                                              CURRENT_TIMESTAMP
8 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'stock_list'
            ADD PRIMARY KEY ('id'),
            ADD KEY 'item_id' ('item_id');
ERROR 1068 (42000): Multiple primary key defined
PES1UG21CS480> desc stock_list;
                                            Null | Key | Default
                                                                                         Extra
  Field
                       Type
   id
                                            NO
                                                      PRI
                                                              NULL
                       int
   item_id
                        int
                                            NO
                                                              NULL
   quantity
                        int
                                            NO
                                                              NULL
   unit
                        varchar(250)
                                            YES
                                                              NULL
   price
                        float
                                            NO
                                                              0
   type
                       tinyint(1)
                                            NO
                                                              1
                       datetime
                                            NO
                                                              CURRENT_TIMESTAMP
                                                                                         DEFAULT_GENERATED
   date_created
                                            YES
                       float
                                                                                         STORED GENERATED
   total
                                                              NULL
8 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE `supplier_list`
-> ADD PRIMARY KEY ('id');
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc supplier_list;
 Field
                               Null | Key | Default
                                                                 | Extra
                 Type
                                             NULL
                  int
                                NO
                                             NULL
  name
                  text
  address
                                NO
                                             NULL
                  text
                                NO
                                             NULL
  cperson
                  text
                                NO
                                             NULL
  contact
                  text
                  tinyint(1)
                                NO
  status
                                             CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
  date_created
                  datetime
                                NO
                                                                  DEFAULT_GENERATED
  date_updated | datetime
                                NO
                                                                  DEFAULT_GENERATED on update CURRENT_TIMESTAMP
8 rows in set (0.00 sec)
PES1UG21CS480>
```

```
PES1UG21CS480> ALTER TABLE 'system_info'
    -> ADD PRIMARY KEY ('id');
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc system_info;
| Field
             | Type | Null | Key | Default | Extra
              int
                            PRI | NULL
lid
                    NO
| meta_field | text |
                                  NULL
                     NO
                                  NULL
| meta_value | text | NO
3 rows in set (0.00 sec)
PES1UG21CS480>
```

```
PES1UG21CS480> ALTER TABLE 'users'
-> ADD PRIMARY KEY ('id');
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc users;
| Field
                                       Null | Key | Default
                  | Type
                                                                               Extra
                                       NO
                                                PRI
                                                       NULL
  firstname
                     varchar(250)
                                       NO
                                                       NULL
                                                       NULL
  middlename
                     text
                                       YES
                                       NO
                    varchar(250)
                                                       NULL
  lastname
  username
                     text
                                       NO
                                                       NULL
                                       NO
  password
                    text
                                                       NULL
  avatar
                     text
                                       YES
                                                       NULL
  last_login
                    datetime
                                       YES
                                                       NULL
                     tinyint(1)
  type
                                       NO
                                                       0
                                       NO
                                                       CURRENT_TIMESTAMP
                                                                               DEFAULT_GENERATED
  date_added
                    datetime
  date_updated
                    datetime
                                       YES
                                                       NULL
                                                                               on update CURRENT_TIMESTAMP
11 rows in set (0.00 sec)
```

PES1UG21CS480> ALTER TABLE `user_meta` -> ADD KEY `user_id` (`user_id`); Query OK, 0 rows affected (0.02 sec) Records: 0 Duplicates: 0 Warnings: 0									
PES1UG21CS480>									
PESIUGZICS480> (PES1UG21CS480> desc user_meta;								
Field	Туре	Null	Key	Default	Extra				
meta_field	text	NO NO NO NO	MUL	NULL NULL NULL CURRENT_TIMESTAMP					
4 rows in set (6	++ 4 rows in set (0.00 sec)								

```
PES1UG21CS480> ALTER TABLE `back_order_list`
-> MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
Query OK, 4 rows affected, 1 warning (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc back_order_list;
                      | Туре
 | Field
                                          | Null | Key | Default
                                                                                      | Extra
                         int
                                                                                         auto_increment
   receiving_id
                         int
                                            NO
                                                     MUL
                                                             NULL
   po_id
                         int
                                            NO
                                                     MUL
                                                             NULL
   bo_code
                         varchar(50)
                                           NO
NO
NO
NO
NO
                                                             NULL
                                                             NULL
                                                     MUL
   supplier_id
                         int
                         float
                                                             NULL
   amount
                                                             0 0 0
   discount_perc
                         float
  discount
                         float
                        float
float
   tax_perc
   tax
                                           YES
NO
  remarks
                        text
                                                             NULL
                        tinyint
   status
                                                             CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
                                                                                        DEFAULT_GENERATED
DEFAULT_GENERATED on update CURRENT_TIMESTAMP
   date_created
                        datetime
                                            NO
  date_updated
                        datetime
                                           NO
 14 rows in set (0.00 sec)
```

PES1UG21CS480> ALTER TABLE 'item_list' -> MODIFY 'id' int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6; Query OK, 4 rows affected, 1 warning (0.06 sec) Records: 4 Duplicates: 0 Warnings: 1

PES1UG21CS480> desc item_list;

Field	 Туре	Null	Key	Default	Extra
+	int text text int int int float tinyint(1)	NO	PRI MUL	NULL NULL NULL NULL 0	auto_increment
date_created date_updated rows in set (datetime datetime	NO NO	 	CURRENT_TIMESTAMP CURRENT_TIMESTAMP	- :

```
PES1UG21CS480> ALTER TABLE `purchase_order_list`
-> MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
Query OK, 2 rows affected, 1 warning (0.06 sec)
Records: 2 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc purchase_order_list;
| Field
                     | Type
                                      | Null | Key | Default
                                                                                | Extra
                       int
                                                                                  auto_increment
   po_code
                       varchar(50)
                                        NO
                                                         NULL
   supplier_id
                                        NO
                                                 MUL
                                                         NULL
                       int
   amount
                       float
                                        NO
                                                         NULL
   discount_perc
                       float
                                        NO
   discount
                       float
                                        NO
   tax_perc
                       float
                                        NO
   tax
                       float
                                        NO
                                                         0
   remarks
                       text
                                        NO
                                                         NULL
                       tinyint
   status
                                        NO
                                                         0
                                                        CURRENT_TIMESTAMP | DEFAULT_GENERATED | CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
   date_created
                       datetime
                                        NO
  date_updated
                                        NO
                      datetime
12 rows in set (0.00 sec)
PES1UG21CS480> ALTER TABLE `receiving_list`
-> MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
Query OK, 6 rows affected, 1 warning (0.05 sec)
Records: 6 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc receiving_list;
                                      Null | Key
                                                     Default
                                                                              | Extra
| Field
                    | Type
                                                                                auto_increment
                       int
                                                       NULL
  from_id
                      int
                                       NO
                                                       NULL
  from_order
                      tinyint(1)
                                       NO
  amount
                      float
                                       NO
  discount_perc
                       float
                                       NO
  discount
                      float
                                       NO
                      float
                                                       0
  tax_perc
                                       NO
                      float
  tax
                                       NO
                                                       0
  stock_ids
                      text
                                       YES
                                                       NULL
  remarks
                      text
                                                       NULL
                                                                                DEFAULT_GENERATED on update CURRENT_TIMESTAMP
                                                       CURRENT_TIMESTAMP
                      datetime
  date_created
                                       NO
  date_updated
                                                       CURRENT TIMESTAMP
                    | datetime
                                       NΩ
12 rows in set (0.00 sec)
PES1UG21CS480>
     1UG21CS480> ALTER TABLE `return_list`
-> MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
PES1UG21CS480> ALTER TABLE
Query OK, 1 row affected, 1 warning (0.04 sec)
Records: 1 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc return_list;
| Field
                                     | Null | Key | Default
                                                                               | Extra
                   | Type
                                                PRI
                                                        NULL
   id
                                                                                 auto increment
                      int
                                       NO
   return_code
                      varchar(50)
                                       NO
                                                        NULL
   supplier_id
                                       NO
                      int
                                                MUL
                                                        NULL
                      float
                                       NO
   amount
                                                        0
                                       YES
                                                        NULL
   remarks
                      text
   stock_ids
                                       NO
                                                        NULL
                     text
                     datetime
                                       NO
                                                        CURRENT_TIMESTAMP
                                                                                 DEFAULT_GENERATED
   date_created
   date_updated | datetime
                                       NO
                                                        CURRENT_TIMESTAMP
                                                                                 DEFAULT_GENERATED on update CURRENT_TIMESTAMP
8 rows in set (0.00 sec)
PES1UG21CS480>
```

```
MODIFY 'id' int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
Query OK, 1 row affected, 1 warning (0.04 sec)
Records: 1 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc sales_list;
                             | Null | Key | Default
               | Type
                                                               | Extra
                                                                auto_increment
  sales_code
                 varchar(50)
                               NO
                                            NULL
  client
                               YES
                                            NULL
                 text
  amount
                 float
                               NO
  remarks
                               YES
                                            NULL
                 text
  stock_ids
                 text
                               NO
                                            NULL
  date_created
                 datetime
                               NO
                                            CURRENT_TIMESTAMP
                                                                DEFAULT_GENERATED
  date_updated
                datetime
                               NO
                                            CURRENT_TIMESTAMP
                                                                DEFAULT_GENERATED on update CURRENT_TIMESTAMP
8 rows in set (0.00 sec)
PES1UG21CS480> |
PES1UG21CS480> ALTER TABLE 'stock_list'
            MODIFY 'id' int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=27;
Query OK, 13 rows affected, 1 warning (0.04 sec)
Records: 13 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc stock_list;
  Field
                                          Null | Key | Default
                    Type
                                                                                    Extra
   id
                       int
                                                    PRI
                                                         NULL
                                                                                      auto_increment
  item_id
                       int
                                          NO
                                                            NULL
  quantity
                      int
                                          NO
                                                            NULL
  unit
                      varchar(250)
                                          YES
                                                            NULL
  price
                      float
                                          NO
                                                            0
  type
                      tinyint(1)
                                          NO
                                                            1
                      datetime
  date_created
                                          NO
                                                           CURRENT_TIMESTAMP
                                                                                      DEFAULT_GENERATED
  total
                                          YES
                                                                                      STORED GENERATED
                      float
                                                           NULL
8 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE `supplier_list`
-> MODIFY `id` int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
Query OK, 2 rows affected, 1 warning (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc supplier_list;
| Field
                            | Null | Key | Default
                                                              | Extra
               Type
                                     PRI
                                           NULL
                                                                auto_increment
 id
                 int
                              NO
                              NO
  name
                 text
                                            NULL
  address
                                            NULL
                              NO
                 text
                              NO
                                            NULL
  cperson
                 text
  contact
                              NO
                                           NULL
                 text
                 tinyint(1)
  status
                              NO
                                            CURRENT TIMESTAMP
                                                                DEFAULT GENERATED
  date created
                 datetime
                              NO
  date_updated | datetime
                                            CURRENT_TIMESTAMP
                                                                DEFAULT_GENERATED on update CURRENT_TIMESTAMP
                              NO
8 rows in set (0.00 sec)
PES1UG21CS480>
```

PES1UG21CS480> ALTER TABLE `sales_list`

```
PES1UG21CS480> ALTER TABLE 'system_info'
           MODIFY 'id' int(30) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=16;
Query OK, 6 rows affected, 1 warning (0.04 sec)
Records: 6 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc system_info;
  Field
                 Type | Null | Key | Default | Extra
  id
                           NO
                                   PRI
                                           NULL
                                                       auto_increment
                  int
  meta_field | text
                          NO
                                           NULL
| meta_value | text |
                          NO
                                           NULL
3 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'users'
   -> MODIFY 'id' int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=12;
Query OK, 3 rows affected, 1 warning (0.04 sec)
Records: 3 Duplicates: 0 Warnings: 1
PES1UG21CS480> desc users;
| Field
                            | Null | Key | Default
                                                           Extra
              | Type
                                    PRI
 id
                                          NULL
                int
                              NO
                                                             auto_increment
 firstname
                varchar(250)
                              NO
                                          NULL
 middlename
                              YES
                                          NULL
               text
 lastname
               varchar(250)
                              NO
                                          NULL
 username
                              NO
                                          NULL
               text
 password
                text
                              NO
                                          NULL
                                          NULL
                              YES
 avatar
               text
 last_login
               datetime
                              YES
                                          NULL
               tinyint(1)
                              NO
 type
                                          0
                                                             DEFAULT_GENERATED
 date_added
               datetime
                              NO
                                          CURRENT_TIMESTAMP
                                                            on update CURRENT_TIMESTAMP
 date_updated
               datetime
                              YES
11 rows in set (0.00 sec)
PES1UG21CS480>
```

```
PES1UG21CS480> ALTER TABLE 'back_order_list'
-> ADD CONSTRAINT 'back_order_list_ibfk_1' FOREIGN KEY ('supplier_id') REFERENCES 'supplier_list' ('id') ON DELETE CASCADE,
-> ADD CONSTRAINT 'back_order_list_ibfk_2' FOREIGN KEY ('po_id') REFERENCES 'purchase_order_list' ('id') ON DELETE CASCADE,
-> ADD CONSTRAINT 'back_order_list_ibfk_3' FOREIGN KEY ('receiving_id') REFERENCES 'receiving_list' ('id') ON DELETE CASCADE;
Query OK, 4 rows affected (0.07 sec)
Records: 4 Duplicates: 0 Warnings: 0
 PES1UG21CS480> desc back_order_list;
                                                | Null | Key
  Field
                                                                      Default
                                                                                                   | Extra
                           Type
                                                                       NULL
                                                                                                     auto_increment
                            int
                            int
int
                                                             MUL
MUL
   receiving_id
                                                  NO
                                                                       NULL
   po_id
                                                                       NULL
                            varchar(50)
int
   bo_code
supplier_id
                                                  NO
NO
                                                                       NULL
                                                             MUL
                                                                       NULL
   amount
discount_perc
                            float
float
                                                  NO
NO
NO
NO
NO
YES
                                                                       NULL
                            float
float
   discount
                                                                       0
0
    tax_perc
                                                                      0
NULL
                            float
   remarks
                            text
                                                 NO
NO
                                                                      0 |
CURRENT_TIMESTAMP |
CURRENT_TIMESTAMP |
    status
                            tinyint
                                                                                                     DEFAULT_GENERATED
DEFAULT_GENERATED on update CURRENT_TIMESTAMP
   date_created
                            datetime
   date_updated
                            datetime
 14 rows in set (0.00 sec)
-> ADD CONSTRAINT 'bo_items_ibfk_1' FOREIGN KEY ('item_id') REFERENCES 'item_list' ('id') ON DELETE CASCADE,
-> ADD CONSTRAINT 'bo_items_ibfk_2' FOREIGN KEY ('bo_id') REFERENCES 'back_order_list' ('id') ON DELETE CASCADE;
Query OK, 5 rows affected (0.07 sec)
Records: 5 Duplicates: 0 Warnings: 0
 PES1UG21CS480> ALTER TABLE
 PES1UG21CS480> desc bo_items;
   Field
                                            | Null | Key | Default | Extra |
                    | Type
    bo_id
                       int
                                               NO
                                                           MUL
                                                                      NULL
                                               NO
    item id
                       int
                                                           MUL
                                                                     NULL
    quantity
                       int
                                               NO
                                                                     NULL
    price
                       float
                                               NO
    .
unit
                      varchar(50)
float
                                              NO
NO
                                                                      NULL
    total
                                                                      0
 6 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'item_list'
-> ADD CONSTRAINT 'item_list_ibfk_1' FOREIGN KEY ('supplier_id') REFERENCES 'supplier_list' ('id') ON DELETE CASCADE;
Query OK, 4 rows affected (0.05 sec)
Records: 4 Duplicates: 0 Warnings: 0
 PES1UG21CS480> desc item_list;
 | Field
                                               | Null | Key | Default
                         | Type
                                                                                                      | Extra
    id
                                                              PRI
                                                                        NULL
                                                                                                         auto_increment
                                                                        NULL
    name
                             text
                                                  NO
    description
                             text
                                                  NO
                                                                        NULL
    supplier_id
                             int
                                                  NO
                                                              MUL
                                                                        NULL
    cost
                             float
                                                  NO
    status
                             tinyint(1)
                                                  NO
                                                                                                     | DEFAULT_GENERATED
| DEFAULT_GENERATED on update CURRENT_TIMESTAMP
    date_created
                                                  NO
                                                                       CURRENT_TIMESTAMP
CURRENT_TIMESTAMP
   date_updated
                            datetime
                                                  NO
```

8 rows in set (0.00 sec)

PES1UG21CS480>

```
PES1UG21CS480> ALTER TABLE `po_items`
-> ADD CONSTRAINT `po_items_ibfk_1` FOREIGN KEY (`po_id`) REFERENCES `purchase_order_list` (`id`) ON DELETE CASCADE,
-> ADD CONSTRAINT `po_items_ibfk_2` FOREIGN KEY (`item_id`) REFERENCES `item_list` (`id`) ON DELETE CASCADE;
Query OK, 3 rows affected (0.06 sec)
Records: 3 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc po_items;
   Field
                   | Type
                                          | Null | Key | Default | Extra |
                                             NO
   po_id
                      int
                                                        MUL
                                                                   NULL
    item_id
                      int
                                             NO
                                                        MUL
                                                                  NULL
                                             NO
NO
NO
    quantity
                     int
float
                                                                  NULL
    price
                     varchar(50)
float
                                                                  NULL
   unit
   total
                                             NO
6 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'purchase_order_list'
-> ADD CONSTRAINT 'purchase_order_list_ibfk_1' FOREIGN KEY ('supplier_id') REFERENCES 'supplier_list' ('id') ON DELETE CASCADE;
Query OK, 2 rows affected (0.06 sec)
Records: 2 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc purchase_order_list;
  Field
                         | Type
                                               | Null | Key | Default
                                                                                                 | Extra
                                                NO
NO
                                                                    NULL
NULL
                                                                                                   auto_increment
                            varchar(50)
   po code
                           int
float
float
float
float
float
float
float
    supplier_id
                                                NO
NO
                                                                    NULL
NULL
   amount
                                                NO
NO
   discount_perc
   discount
                                                NO
NO
    tax_perc
   tax
                           text
tinyint
datetime
datetime
   remarks
status
                                                NO
NO
                                                                    NULL
0
   date_created
date_updated
                                                NO
NO
                                                                    CURRENT_TIMESTAMP | DEFAULT_GENERATED CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP |
```

12 rows in set (0.00 sec)

PES1UG21CS480>

```
PES1UG21CS480> ALTER TABLE 'return_list'
-> ADD CONSTRAINT 'return_list_ibfk_1' FOREIGN KEY ('supplier_id') REFERENCES 'supplier_list' ('id') ON DELETE CASCADE;
Query OK, 1 row affected (0.06 sec)
Records: 1 Duplicates: 0 Warnings: 0
PES1UG21CS480> desc return_list;
                                      | Null | Key | Default
                                                                                  auto_increment
                      varchar(50)
int
  return_code
supplier_id
                                        NO
NO
NO
                                                        NULL
                                                MUL
                                                        NULL
   amount
                      float
                                                        0
NULL
                                        YES
NO
   remarks
                      text
   stock_ids
                     text
                                                        NULL
  date_created | datetime
date_updated | datetime
                                       NO
NO
                                                        CURRENT_TIMESTAMP
                                                                                  DEFAULT_GENERATED
                                                        CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
 8 rows in set (0.00 sec)
PES1UG21CS480>
PES1UG21CS480> ALTER TABLE 'stock_list'
-> ADD CONSTRAINT 'stock_list_ibfk_1' FOREIGN KEY ('item_id') REFERENCES 'item_list' ('id') ON DELETE CASCADE;
Query OK, 13 rows affected (0.05 sec)
Records: 13 Duplicates: 0 Warnings: 0
 PES1UG21CS480> desc stock_list;
 .
| Field
                                                                                        | Extra
                     | Type
                                          | Null | Key | Default
                                                                                          auto_increment
   id
                        int
                                            NO
                                                      PRI
                                                               NULL
   item_id
                                             NO
                                                               NULL
                        int
  quantity
                        int
                                             NO
                                                               NULL
   unit
                        varchar(250)
                                                              NULL
```

CURRENT_TIMESTAMP

DEFAULT_GENERATED
STORED GENERATED

price

type

total

date_created

PES1UG21CS480>

8 rows in set (0.00 sec)

float tinyint(1)

float

datetime

NO

NO

```
mysql> DELIMITER //
mysql>
mysql> CREATE TRIGGER update_purchase_order_list_date
    -> BEFORE UPDATE ON purchase_order_list
    -> FOR EACH ROW
    -> BEGIN
    -> SET NEW.date_updated = current_timestamp();
    -> END;
    ->
    -> //
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> DELIMITER;
mysql>
```

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetBackOrderDetails(IN boID INT)
                                                                   BEGIN
                                                                  DECLARE totalAmount FLOAT;
DECLARE totalItems FLOAT;
SELECT SUM(amount) INTO totalAmount FROM back_order_list WHERE id = boID;
                                                             SELECT SUM(amount) INTO total Amount From Declare item_id INT;

DECLARE item_quantity INT;

DECLARE item_price FLOAT;

DECLARE item_unit VARCHAR(50);

DECLARE item_total FLOAT;

DECLARE totalCost FLOAT DEFAULT 0;

DECLARE totalQuantity INT DEFAULT 0;

DECLARE cur_bo_items CURSOR FOR

SELECT item_id, quantity, price, unit, total
FROM bo items
                      ->
                     ->
                     ->
                                                                                                              WHERE bo_id = boID;
                                                              OPEN cur_bo_items;
read_loop: LOOP

FETCH cur_bo_items INTO item_id, item_quantity, item_price, item_unit, item_total;
                    ->
->
                                                                                                              IF FETCH_STATUS() <> 0 THEN
    LEAVE read_loop;
                     ->
                     ->
                                                               END TERMS FOR THE END TO THE END THE END TO THE END T
                     ->
                                                                 END LOOP;
CLOSE cur_bo_items;
SELECT totalAmount AS back_order_amount, totalCost AS total_item_cost, totalQuantity AS total_item_quantity;
                     ->
                                                                  END;
DELIMITER;
                      ->
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE GetBackOrderDetails(IN boID INT)
     -> BEGIN
             DECLARE totalAmount FLOAT;
              DECLARE totalItems FLOAT;
             DECLARE item_id INT;
DECLARE item_quantity INT;
DECLARE item_price FLOAT;
             DECLARE item_price FLOAT;
DECLARE item_unit VARCHAR(50);
DECLARE item_total FLOAT;
DECLARE totalCost FLOAT DEFAULT 0;
DECLARE totalQuantity INT DEFAULT 0;
     ->
             DECLARE done INT DEFAULT 0;
DECLARE cur_bo_items CURSOR FOR
     ->
                   SELECT item_id, quantity, price, unit, total
                  FROM bo_items
WHERE bo_id = boID;
     ->
              DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1:
              SELECT SUM(amount) INTO totalAmount FROM back order list WHERE id = boID:
     ->
->
              OPEN cur_bo_items;
              read loop: LOOP
                   FETCH cur_bo_items INTO item_id, item_quantity, item_price, item_unit, item_total;
     ->
                       LEAVE read_loop;
                   END IF;
                   SET totalCost = totalCost + item_total;
SET totalQuantity = totalQuantity + item_quantity;
     ->
              END LOOP;
CLOSE cur_bo_items;
     ->
     ->
              SELECT totalAmount AS back_order_amount, totalCost AS total_item_cost, totalQuantity AS total_item_quantity;
     -> END;
Query OK, 0 rows affected (0.01 sec)
mvsal>
mysql> DELIMITER ;
mysql>
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION CalculatePOTotalCost(poID INT)
    -> RETURNS FLOAT
    -> DETERMINISTIC
    -> BEGIN
           DECLARE totalCost FLOAT;
    ->
    ->
           SELECT SUM(total) INTO totalCost FROM po_items WHERE po_id = poID;
    ->
           RETURN totalCost;
    ->
    -> END;
    -> //
Query OK, 0 rows affected (0.01 sec)
mysql>
mysql> DELIMITER ;
```