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Group - 4
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1.
create table customer quantity copy( customerName varchar(255), QUANTITY int(11));
mysql> create table customer_quantity_copy( customerName varchar(255), QUANTITY int(11) );
Query OK, 0 rows affected (0.04 sec)
mysql> desc customer_quantity_copy;
                              | Null | Key | Default | Extra |
  customerName | varchar(255) | YES
                                              NULL
                               | YES
                                              NULL
  QUANTITY | int(11)
  rows in set (0.01 sec)
mysql> select * from customer_quantity_copy
Empty set (0.00 sec)
delimiter $$
create procedure copyCustomerQuantity ()
  BEGIN
  declare v finished integer Default 0;
  declare cName varchar(255) Default " ";
  declare q integer Default 0;
  declare quantityCursor cursor for
  select customers.customerName, sum(orderdetails.quantityOrdered) from orders inner join
orderdetails on orders.orderNumber = orderdetails.orderNumber inner join customers on
customers.customerNumber = orders.customerNumber group by orders.customerNumber;
  declare continue handler for not found set v finished = 1;
  open quantityCursor;
  getQuantity: loop
  fetch quantityCursor into cName, q;
  if v finished = 1 then
  leave getQuantity;
  end if:
  insert into customer quantity copy values(cName, q);
  end loop getOuantity;
  close quantityCursor;
  END$
```

CS 207 Assignment 5

```
mysql> create procedure copyCustomerQuantity ()

-> BEGIN

-> declare v_finished integer Default 0;

-> declare cName varchar(255) Default " ";

-> declare q integer Default 0;

-> declare quantityCursor cursor for

-> select customers.customerName, sum(orderdetails.quantityOrdered) from orders inner join orderdetails on orders.orderNumber = orderdetails.orderNum
ber inner join customers on customers.customerNumber = orders.customerNumber group by orders.customerNumber;

-> declare continue handler for not found set v_finished = 1;

-> open quantityCursor;

-> getQuantity: loop

-> fetch quantityCursor into cName, q;

-> if v_finished = 1 then

-> leave getQuantity;

-> end if;

-> insert into customer_quantity_copy values(cName, q);

-> end loop getQuantity;

-> close quantityCursor;

-> END $$

Query OK, 0 rows affected (0.00 sec)
```

delimiter; call copyCustomerQuantity; select * from customer quantity copy limit 10;

```
mysql> call copyCustomerQuantity;
Query OK, 0 rows affected (0.04 sec)
mysql> select * from customer_quantity_copy limit 10;
                                 QUANTITY
 customerName
 Atelier graphique
                                       270
| Signal Gift Stores
                                      929
| Australian Collectors, Co.
                                     1926
| La Rochelle Gifts
                                     1832
| Baane Mini Imports
                                     1082
| Mini Gifts Distributors Ltd.
                                     6366
| Blauer See Auto, Co.
                                      811
| Mini Wheels Co.
                                      692
| Land of Toys Inc.
                                      1631
 Euro+ Shopping Channel
                                     9327
10 rows in set (0.00 sec)
```

2. create table employee_audit (id int(11) primary key auto_increment, employeeNumber int(11) not null, lastname varchar(50) not null, changedat datetime, action varchar(50))\$\$

```
mysql> desc employee audit
    -> $$
 Field
                                | Null | Key | Default |
                 | Type
 id
                   int(11)
                                  NO
                                               NULL
                                                          auto increment
                                  NO
 employeeNumber
                   int(11)
                                               NULL
                   varchar(50)
                                  NO
 lastname
                                               NULL
 changedat
                   datetime
                                  YES
                                               NULL
                                               NULL
 action
                   varchar(50)
                                 YES
 rows in set (0.13 sec)
```

create trigger audit_before_update before update on employees for each row begin insert into employee_audit (employeeNumber, lastname, changedat, action) values (OLD.employeeNumber, OLD.lastname, CURRENT_TIMESTAMP, "update"); end\$\$

3. create table customer_audit (id int(11) primary key auto_increment, customerID int(11) not null, user_name varchar(50) not null, ContactName varchar(100) not null, changedat datetime, action varchar(50));

```
mysql> desc customer audit;$$
  Field
                              | Null | Key | Default | Extra
              | Type
                int(11)
                                             NULL
                                                        auto_increment
 customerID
                int(11)
                                NO
                                              NULL
                varchar(50)
                                NO
                                             NULL
 user name
 ContactName
                varchar(100)
                                NO
                                             NULL
                datetime
                                YES
                                             NULL
 changedat
 action
                varchar(50)
                                YES
                                             NULL
 rows in set (0.01 sec)
```

create trigger audit_after_delete after delete on Customers for each row begin insert into customer_audit (customerid, user_name, contactname, changedat, action) values (OLD.customerID, CURRENT USER(), OLD.contactname, CURRENT TIMESTAMP, "DELETE"); end\$\$

<pre>mysql> select * from customer_audit\$\$ ++</pre>			
	ContactName	changedat	action
1 1 shreyanshkuls@localhost	Maria Anders	2018-09-29 22:24:39	DELETE
1 row in set (0.00 sec)			***************************************