

Following scripts are written based on MySQL 8.0 syntax.

1. Get:

```
CREATE DEFINER='root'@'localhost' PROCEDURE `getvalue`(in tbl varchar(100), attribute
varchar(100), id int)
BEGIN
set @keyname = 'id';
set @secondkeyname = 'id';
if tbl = 'order_products' then
set @keyname = order_id;
set @secondkeyname = product_id;
set @keyid = substring_index(id,',',1);
set @secondkeyid = substring_index(id,',',-1);
set @query2 = concat('select ',attribute, ' from ', tbl, ' where ', @keyname, ' = ',@keyid, ' and ',
@secondkeyname, ' = ',@secondkeyid);
prepare getsqlop from @query2;
execute getsqlop;
DEALLOCATE PREPARE getsqlop;
else
set @keyname = case
    when tbl = 'orders' then 'order_id'
    when tbl = 'products' then 'product_id'
    when tbl = 'aisles' then 'aisle_id'
    when tbl = 'departments' then 'department_id'
end;
set @query1 = concat('select ',attribute, ' from ', tbl, ' where ', @keyname, ' = ',id);
prepare getsql from @query1;
execute getsql;
end if;
DEALLOCATE PREPARE getsql;
END
```

2. Set

```
CREATE DEFINER='root'@'localhost' PROCEDURE `setvalue`(in tbl varchar(100), attribute
varchar(100), id int, val varchar(255))
BEGIN
set @keyname = 'id';
set @secondkeyname = 'id';
if tbl = 'order_products' then
set @keyname = order_id;
set @secondkeyname = product_id;
set @keyid = substring_index(id,',',1);
set @secondkeyid = substring_index(id,',',-1);
set @query2 = concat('update ',tbl, ' set ', attribute, ' = ',val, ' where ', @keyname, ' = ',@keyid, ' and
', @secondkeyname, ' = ',@secondkeyid);
prepare getsqlop from @query2;
execute getsqlop;
DEALLOCATE PREPARE getsqlop;
else
set @keyname = case
    when tbl = 'orders' then 'order_id'
    when tbl = 'products' then 'product_id'
    when tbl = 'aisles' then 'aisle_id'
    when tbl = 'departments' then 'department_id'
end;
set @query1 = concat('update ',tbl, ' set ', attribute, ' = ',val, ' where ', @keyname, ' = ',id);
prepare getsql from @query1;
execute getsql;
end if;
DEALLOCATE PREPARE getsql;
END
```

3. Delete

```
CREATE DEFINER='root'@'localhost' PROCEDURE `deleterecords`(in tbl varchar(100), id int)
BEGIN
set @keyname = 'id';
set @secondkeyname = 'id';
if tbl = 'order_products' then
set @keyname = order_id;
set @secondkeyname = product_id;
set @keyid = substring_index(id,',',1);
set @secondkeyid = substring_index(id,',',-1);
set @query2 = concat('delete from ',tbl, ' where ', @keyname, ' = ',@keyid, ' and ', @secondkeyname,
' = ',@secondkeyid);
prepare getsqlop from @query2;
execute getsqlop;
DEALLOCATE PREPARE getsqlop;
else
set @keyname = case
    when tbl = 'orders' then 'order_id'
    when tbl = 'products' then 'product_id'
    when tbl = 'aisles' then 'aisle_id'
    when tbl = 'departments' then 'department_id'
end;
set @query1 = concat('delete from ',tbl, ' where ', @keyname, ' = ',id);
prepare getsql from @query1;
execute getsql;
end if;
DEALLOCATE PREPARE getsql;
END
```

4. Exec

```
CREATE DEFINER='root'@'localhost' PROCEDURE `execoperation`(in tbl varchar(100),
attribute varchar(100), operation varchar(100))
BEGIN
set @keyname = 'id';
set @secondkeyname = 'id';
set @op = 'count';
if operation = 'count' then
set @op = 'count';
elseif operation = 'max' then
set @op = 'max';
end if;
if tbl = 'order_products' then
set @keyname = order_id;
set @secondkeyname = product_id;
set @keyid = substring_index(id,',',1);
set @secondkeyid = substring_index(id,',',-1);
set @query2 = concat('select ', @op, '(',attribute,')', ' from ', tbl);
prepare getsqlop from @query2;
execute getsqlop;
DEALLOCATE PREPARE getsqlop;
else
set @keyname = case
    when tbl = 'orders' then 'order_id'
    when tbl = 'products' then 'product_id'
    when tbl = 'aisles' then 'aisle_id'
    when tbl = 'departments' then 'department_id'
end;
set @query1 = concat('select ', @op, '(',attribute,')', ' from ', tbl);
prepare getsql from @query1;
execute getsql;
end if;
DEALLOCATE PREPARE getsql;
END
```