PL SQL

Microsoft Windows [Version 10.0.19045.5608]
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C:\Users\Admin>mysql -u root -p
Enter password: ***************
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.37 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
```
+----------------------------+
| Database                   |
+----------------------------+
| hello                      |
| information_schema         |
| jewellery_shop_db          |
| miniproject_23203          |
| mysql                      |
| ord_management_system_23203 |
| ord_temp_code              |
| org                        |
| performance_schema         |
| schedule                   |
| sys                        |
| temp                       |
+----------------------------+
```
12 rows in set (0.02 sec)

```
mysql> use miniproject_23203;
Database changed
mysql> show tables;
+-----------------------------+
| Tables_in_miniproject_23203 |
+-----------------------------+
| cust_order_view             |
| customer                    |
| jewellery                   |
| monthly_sales               |
| order_items                 |
| orders                      |
| payment                     |
| unit                        |
+-----------------------------+
8 rows in set (0.03 sec)

mysql> desc customer;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| custid   | char(5)     | NO   | PRI | NULL    |       |
| name     | varchar(30) | NO   |     | NULL    |       |
| phnumber | char(10)    | NO   |     | NULL    |       |
| email    | varchar(40) | NO   |     | NULL    |       |
| gender   | char(1)     | YES  |     | M       |       |
+----------+-------------+------+-----+---------+-------+
5 rows in set (0.05 sec)

mysql> desc jewellery;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| jewelleryid | char(5)     | NO   | PRI | NULL    |       |
| jtype       | varchar(30) | NO   |     | NULL    |       |
| HSN         | varchar(30) | NO   |     | NULL    |       |
| stock       | int         | NO   |     | 0       |       |
```

```
| description | varchar(250) | NO |    | NULL |     |
+-------------+--------------+------+-----+--------+-------+
5 rows in set (0.04 sec)

mysql> desc unit;
+----------------+-------------------------------------------------------+------+-----+-----------+-------+
| Field          | Type                                                  | Null | Key | Default   | Extra |
+----------------+-------------------------------------------------------+------+-----+-----------+-------+
| unitid         | char(7)                                               | NO   | PRI | NULL      |       |
| jewelleryid    | char(5)                                               | YES  | MUL | NULL      |       |
| size           | varchar(40)                                           | YES  |     | NULL      |       |
| weight         | int                                                   | NO   |     | 0         |       |
| material       | varchar(40)                                           | YES  |     | NULL      |       |
| makingcharges  | decimal(10,2)                                         | YES  |     | 0.00      |       |
| wastagecharges | decimal(10,2)                                         | YES  |     | 0.00      |       |
| date_added     | date                                                  | NO   |     | NULL      |       |
| status         | enum('Available','Sold','Reserved','Out of Stock')    | NO   |     | Available |       |
| date_sold      | date                                                  | YES  |     | NULL      |       |
+----------------+-------------------------------------------------------+------+-----+-----------+-------+
10 rows in set (0.01 sec)

mysql> desc orders;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| orderid     | char(6)      | NO   | PRI | NULL    |       |
| custid      | char(5)      | NO   | MUL | NULL    |       |
| order_date  | date         | NO   |     | NULL    |       |
| total_price | decimal(10,2)| YES  |     | 0.00    |       |
+-------------+--------------+------+-----+---------+-------+
4 rows in set (0.01 sec)

mysql> desc order_items;
+--------------+--------------+------+-----+---------+--------------+
```

```
| Field         | Type          | Null | Key | Default | Extra          |
+---------------+---------------+------+-----+---------+----------------+
| order_item_id | int           | NO   | PRI | NULL    | auto_increment |
| orderid       | char(6)       | NO   | MUL | NULL    |                |
| jewelleryid   | char(5)       | NO   | MUL | NULL    |                |
| unitid        | char(7)       | NO   | MUL | NULL    |                |
| current_price | decimal(10,2) | NO   |     | 0.00    |                |
| total_price   | decimal(10,2) | NO   |     | 0.00    |                |
+---------------+---------------+------+-----+---------+----------------+
6 rows in set (0.02 sec)

mysql> desc payment;
+--------------+------------------------------------------------+------+-----+---------+-------+
| Field        | Type                                           | Null | Key | Default | Extra |
+--------------+------------------------------------------------+------+-----+---------+-------+
| paymentid    | char(10)                                       | NO   | PRI | NULL    |       |
| orderid      | char(6)                                        | NO   | MUL | NULL    |       |
| mode         | enum('Cash','Debit Card','Credit Card','Bitcoin') | NO   |     | Cash    |       |
| payment_date | date                                           | NO   |     | NULL    |       |
| amount       | int                                            | NO   |     | 0       |       |
+--------------+------------------------------------------------+------+-----+---------+-------+
5 rows in set (0.04 sec)
```

mysql> -- procedure to add a new customer
mysql> delimiter $$
mysql>
create procedure AddCustomer(
→ in p_custid char(5),
→ in p_name varchar(30),
→ in p_phnumber char(10),
→ in p_email varchar(40),
→ in p_gender char(1))
→ begin

```
→   insert into Customer(custid,name,phnumber,email,gender)
→   values (p_custid,p_name,p_phnumber , p_email , p_gender);
→ end$$
Query OK, 0 rows affected (0.04 sec)

mysql> delimiter ;
mysql>
 call AddCustomer('C1234','Ravi Patel','9876543210','ravi@gmail.com','M');
Query OK, 1 row affected (0.04 sec)

mysql> select * from customer;
```

```
+--------+----------------+------------+--------------------------+-------+
| custid | name           | phnumber   | email                    | gender |
+--------+----------------+------------+--------------------------+-------+
| C0001  | Amit Sharma    | 9876434365 |
amit.sharma@gmail.com      | M     |
| C0002  | Rahul Verma    | 8765432109 |
rahul.verma@gmail.com      | M     |
| C0003  | Vikram Singh   | 7654321098 |
vikram.singh@gmail.com     | M     |
| C0004  | Sneha Kapoor   | 9543210987 |
sneha.kapoor@gmail.com     | F     |
| C0005  | Priya Mehta    | 8432109876 |
priya.mehta@gmail.com      | F     |
| C0006  | Rohit Nair     | 9321098765 |
rohit.nair@gmail.com       | M     |
| C0007  | Deepak Malhotra| 8210987654 |
deepak.malhotra@gmail.com  | M     |
| C0008  | Ananya Iyer    | 9108765432 |
ananya.iyer@gmail.com      | F     |
| C0009  | Sandeep Yadav  | 8987654321 |
sandeep.yadav@gmail.com    | M     |
| C0010  | Kunal Joshi    | 9876504321 |
kunal.joshi@gmail.com      | M     |
| C1234  | Ravi Patel     | 9876543210 |
ravi@gmail.com             | M     |
```

```
+--------+---------------+-----------+-------------------------+-------+
11 rows in set (0.00 sec)

mysql> -- func to calculate total price of an order
mysql> delimiter $$
mysql> create function
GetOrderTotal(p_orderid char(6))
    -> returns decimal(10,2)
    -> deterministic
    -> begin
    ->     declare total decimal(10,2);
    ->     select sum(total_price) into total
    ->         from order_items where orderid = p_orderid;
    ->
    ->      return IFNULL(total,0.00);
    -> end$$
Query OK, 0 rows affected (0.05 sec)

mysql> delimiter ;
mysql> select * from order_items;
+--------------+---------+------------+---------+--------------+------------+
| order_item_id | orderid | jewelleryid | unitid  | current_price | total_price |
+--------------+---------+------------+---------+--------------+------------+
|            1 | OR0001  | AN001      | AN00101 |     20000.00 |   21680.00 |
|            2 | OR0001  | BR001      | BR00101 |     50000.00 |   53900.00 |
|            3 | OR0002  | BA002      | BA00201 |     20000.00 |   25000.00 |
|            4 | OR0003  | EA003      | EA00301 |     30000.00 |   31350.00 |
|            5 | OR0003  | CH001      | CH00101 |     50000.00 |   53350.00 |
|            6 | OR0004  | BR002      | BR00201 |     20000.00 |   22470.00 |
|            7 | OR0004  | EA001      | EA00101 |     50000.00 |   52020.00 |
|            8 | OR0005  | BA003      | BA00301 |    100000.00 |  110000.00 |
|            9 | OR0006  | CH002      | CH00201 |     20000.00 |   22800.00 |
|           10 | OR0006  | CH003      | CH00301 |     80000.00 |   85600.00 |
|           11 | OR0007  | EA002      | EA00201 |    100000.00 |  103130.00 |
|           12 | OR0008  | LO001      | LO00101 |     50000.00 |   53130.00 |
|           13 | OR0008  | PE001      | PE00101 |     50000.00 |   52250.00 |
|           14 | OR0009  | RI002      | RI00201 |     20000.00 |   21150.00 |
```

```
|            15 | OR0009  | RI003      | RI00301 |     80000.00 |   82800.00 |
|            16 | OR0010  | BA001      | BA00101 |     50000.00 |   57800.00 |
+--------------+---------+------------+---------+--------------+------------+
```
16 rows in set (0.04 sec)

mysql> **select GetOrderTotal('OR0001');**
```
+------------------------+
| GetOrderTotal('OR0001') |
+------------------------+
|              75580.00 |
+------------------------+
```
1 row in set (0.01 sec)

mysql> -- stored procedure to record a payment
mysql> delimiter $$
mysql>
create procedure RecordPayment(
→ In p_paymentid char(10),
→ In p_orderid char(6),
→ in p_mode enum('Cash','Debit Card','Credit Card','Bitcoin'),
→ in p_payment_date date,
→ in p_amount int)
→ begin
→   insert into payment (paymentid,orderid,mode,payment_date,amount)
→   values (p_paymentid, p_orderid , p_mode , p_payment_date,p_amount);
→ end$$
Query OK, 0 rows affected (0.01 sec)

mysql> delimiter ;
mysql> select * from payment;
```
+------------+---------+-------------+--------------+--------+
| paymentid  | orderid | mode        | payment_date | amount |
+------------+---------+-------------+--------------+--------+
| PAY0000001 | OR0001  | Credit Card | 2025-03-20   |  75580 |
| PAY0000002 | OR0002  | Debit Card  | 2025-04-10   |  25000 |
| PAY0000003 | OR0003  | Cash        | 2025-05-18   |  84700 |
| PAY0000004 | OR0004  | Debit Card  | 2025-07-08   |  74490 |
| PAY0000005 | OR0005  | Credit Card | 2025-09-25   | 110000 |
```

```
| PAY0000006 | OR0006 | Debit Card  | 2025-11-12 | 108400 |
| PAY0000007 | OR0007 | Debit Card  | 2026-03-22 | 103130 |
| PAY0000008 | OR0008 | Cash        | 2026-06-05 | 105380 |
| PAY0000009 | OR0009 | Bitcoin     | 2026-07-15 | 103950 |
| PAY0000010 | OR0010 | Credit Card | 2026-12-31 |  57800 |
+-----------+--------+------------+------------+-------+
10 rows in set (0.02 sec)
```

mysql> Call RecordPayment('PAY0000011','OR001','Debit Card', curdate(),52000);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (

`miniproject_23203` . `payment` , CONSTRAINT `payment_orderid` FOREIGN KEY (`orderid`)
REFERENCES `orders` (`orderid`) ON DELETE CASCADE)

mysql> select * from order;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'order' at line 1

mysql> select * from orders;

```
+---------+--------+------------+-------------+
| orderid | custid | order_date | total_price |
+---------+--------+------------+-------------+
| OR0001  | C0001  | 2025-03-20 |   75580.00  |
| OR0002  | C0002  | 2025-04-10 |   25000.00  |
| OR0003  | C0003  | 2025-05-18 |   84700.00  |
| OR0004  | C0001  | 2025-07-08 |   74490.00  |
| OR0005  | C0004  | 2025-09-25 |  110000.00  |
| OR0006  | C0005  | 2025-11-12 |  108400.00  |
| OR0007  | C0002  | 2026-03-22 |  103130.00  |
| OR0008  | C0003  | 2026-06-05 |  105380.00  |
| OR0009  | C0001  | 2026-07-15 |  103950.00  |
| OR0010  | C0004  | 2026-12-31 |   57800.00  |
+---------+--------+------------+-------------+
10 rows in set (0.00 sec)
```

mysql> insert into orders(orderid,custid,order_date,total_price)
→ values

```
→ ('OR0011','C0001',curdate(),30000);
Query OK, 1 row affected (0.05 sec)

mysql> Call RecordPayment('PAY0000011','OR0011','Debit Card',
curdate(),30000);
Query OK, 1 row affected (0.04 sec)

mysql> select * from payment;
+------------+---------+-------------+--------------+--------+
| paymentid  | orderid | mode        | payment_date | amount |
+------------+---------+-------------+--------------+--------+
| PAY0000001 | OR0001  | Credit Card | 2025-03-20   |  75580 |
| PAY0000002 | OR0002  | Debit Card  | 2025-04-10   |  25000 |
| PAY0000003 | OR0003  | Cash        | 2025-05-18   |  84700 |
| PAY0000004 | OR0004  | Debit Card  | 2025-07-08   |  74490 |
| PAY0000005 | OR0005  | Credit Card | 2025-09-25   | 110000 |
| PAY0000006 | OR0006  | Debit Card  | 2025-11-12   | 108400 |
| PAY0000007 | OR0007  | Debit Card  | 2026-03-22   | 103130 |
| PAY0000008 | OR0008  | Cash        | 2026-06-05   | 105380 |
| PAY0000009 | OR0009  | Bitcoin     | 2026-07-15   | 103950 |
| PAY0000010 | OR0010  | Credit Card | 2026-12-31   |  57800 |
| PAY0000011 | OR0011  | Debit Card  | 2025-04-09   |  30000 |
+------------+---------+-------------+--------------+--------+
11 rows in set (0.00 sec)

mysql>

mysql> drop procedure if exists CancelPaymentAndCleanup;
Query OK, 0 rows affected (0.03 sec)

mysql>
```