

Assignment No 7

Write and execute PL/SQL block to implement all types of the cursor on Order Management DB.

1) Cursor which fetches all customer names stored in a procedure demo_cursor().

```
mysql> create procedure demo_cursor() begin declare name char(10) default ''; declare i int default 0; declare name_cursor cursor for select c_name from customer order by c_id desc; declare continue handler for not found set i=1; open name_cursor; fetch name_cursor into name; while i!=1 do select name; fetch name_cursor into name; end while; close name_cursor; end$$
```

->DELIMITER \$\$

->create procedure demo_cursor() begin declare name char(10) default ''; declare i int default 0; declare name_cursor cursor for select c_name from customer order by c_id desc; declare continue handler for not found set i=1; open name_cursor; fetch name_cursor into name; while i!=1 do select name; fetch name_cursor into name; end while; close name_cursor; end\$\$

→ → DELIMITER ;

```
mysql> call demo_cursor();
+-----+
| name  |
+-----+
| raghuram |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| anvesh |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| sahil |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| archit |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| anish |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| mitesh |
+-----+
1 row in set (0.03 sec)

+-----+
| name  |
+-----+
| radhika |
+-----+
1 row in set (0.03 sec)
```

2) Cursor createEmailList which stores all email addresses of customers.

```
mysql> create procedure createEmailList(INOUT emailList varchar(4000)) begin declare finished integer default 0; declare emailAddress varchar(100) default ""; declare curEmail cursor for select c_email from customer; declare continue handler for not found set finished=1; open curEmail; getEmail: LOOP fetch curEmail into emailAddress; IF finished = 1 THEN leave getEmail; END IF; set emailList = concat(emailList,";",emailAddress); end LOOP getEmail; close curEmail; END$$

mysql> call createEmailList(@emailList);
Query OK, 0 rows affected (0.00 sec)

mysql> set @emailList="";
Query OK, 0 rows affected (0.00 sec)

mysql> call createEmailList(@emailList);
Query OK, 0 rows affected (0.00 sec)

mysql> select @emailList;
+-----+
| @emailList |
+-----+
| ;a@gmail.com;bhumika@gmail.com;daniel@gmail.com;radhika@gmail.com;mitesh@gmail.com;anish@gmail.com;archit@gmail.com;sahil@gmail.com;anvesh@gmail.com;raghu@gmail.com |
+-----+
1 row in set (0.00 sec)
```

3) Cursor createProductList which stores all products available.

```
mysql> DELIMITER $$
mysql> create procedure createProductList(INOUT productList varchar(4000)) begin declare finished integer default 0; declare products varchar(100) default ""; declare curProduct cursor for select p_name from product; declare continue handler for not found set finished=1; open curProduct; getProduct: LOOP fetch curProduct into products; IF finished = 1 THEN leave getProduct; END IF; set productList = concat(productList,";",products); end LOOP getProduct; close curProduct; END$$
Query OK, 0 rows affected (0.10 sec)

mysql> DELIMITER ;
```

->DELIMITER \$\$

->create procedure createProductList(INOUT productList varchar(4000)) begin declare finished integer default 0; declare products varchar(100) default ""; declare curProduct cursor for select p_name from product; declare continue handler for not found set finished=1; open curProduct; getProduct: LOOP fetch curProduct into products; IF finished = 1 THEN leave getProduct; END IF; set productList = concat(productList,";",products); end LOOP getProduct; close curProduct; END\$\$

->DELIMITER ;

->set @productlist = "";

->call createProductList(@productlist);

->select @productlist;

```
mysql> set @productlist = "";
Query OK, 0 rows affected (0.00 sec)

mysql> call createProductList(@productlist);
Query OK, 0 rows affected (0.00 sec)

mysql> select @productlist;
+-----+
| @productlist |
+-----+
| :jeans:T-shirt;jacket:notebook:hat:sweater |
+-----+
1 row in set (0.00 sec)
```