

Assignment No 6

Q. Write and execute PL/SQL stored procedure and function to perform a suitable task on Order Management DB.

```
mysql> SHOW PROCEDURE STATUS WHERE db = 'ai';
```

Db	Name	Type	Definer	Modified	Created	Security_type	Comment	character_set_client	collation_connection	Database Collation
ai	createEmailList	PROCEDURE	root@localhost	2020-10-07 11:03:50	2020-10-07 11:03:50	DEFINER		utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
ai	createProductList	PROCEDURE	root@localhost	2020-11-06 12:49:59	2020-11-06 12:49:59	DEFINER		utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
ai	demo_cursor	PROCEDURE	root@localhost	2020-10-03 12:08:08	2020-10-03 12:08:08	DEFINER		utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
ai	get_data	PROCEDURE	root@localhost	2020-09-26 11:23:50	2020-09-26 11:23:50	DEFINER		utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci
ai	InsertNewProduct	PROCEDURE	root@localhost	2020-10-07 11:31:45	2020-10-07 11:31:45	DEFINER		utf8mb4	utf8mb4_0900_ai_ci	utf8mb4_0900_ai_ci

```
3 rows in set (0.05 sec)
```

1) Stored procedure get_data to fetch all tables..

```
DELIMITER $$
CREATE PROCEDURE get_data()
BEGIN
    SELECT * from customer,
    SELECT * from orders,
    SELECT * from orders_product,
    SELECT * from product,
END$$
DELIMITER ;
```

```
Activities Terminal Nov 1 12:48 PM
mihir@pop-os ~
```

```
mysql> call get_data();
```

c_id	c_name	c_mobile	c_city	c_state	c_email
1	anish	111	pune	maharashtra	a@gmail.com
2	bhumi	222	mumbai	maharashtra	bhumi@gmail.com
3	daniel	333	mumbai	maharashtra	daniel@gmail.com
4	radhika	444	pune	maharashtra	radhika@gmail.com
5	mitesh	555	nagpur	maharashtra	mitesh@gmail.com
6	anish	666	pune	maharashtra	anish@gmail.com
7	archit	777	bangalore	karnataka	archit@gmail.com
8	sahil	888	surat	gujrat	sahil@gmail.com
9	anvesh	999	srinagar	j&k	anvesh@gmail.com
10	raghuram	1111	chennai	Tamil Nadu	raghu@gmail.com

```
10 rows in set (0.00 sec)
```

o_id	c_id	items	amount	o_date
1	1	2	2000	2020-09-01
3	6	1	800	2019-09-01
4	1	1	50	2021-07-01
5	4	3	1700	2020-06-12
6	7	2	250	2020-05-05
7	4	3	1050	2020-05-05

```
6 rows in set (0.00 sec)
```

o_id	p_id	quantity
1	1	1
1	2	1
3	2	1
4	4	1
6	4	1
5	6	3
4	3	2
5	5	1
6	5	1
7	4	1
7	6	1
7	6	1

```
12 rows in set (0.00 sec)
```

p_id	p_name	p_cost	stock
------	--------	--------	-------

```

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minir@pop-os: ~
mysql> select * from orders;
+----+-----+-----+-----+-----+
| o_id | c_id | p_id | quantity | d_date |
+----+-----+-----+-----+-----+
| 1 | 1 | 1 | 1 | 2020-09-04 |
| 1 | 2 | 1 | 1 | 2018-09-04 |
| 3 | 2 | 1 | 1 | 2021-07-04 |
| 4 | 4 | 1 | 1 | 2020-05-15 |
| 6 | 4 | 1 | 1 | 2020-05-08 |
| 5 | 6 | 3 | 1 | 2020-05-05 |
| 4 | 3 | 2 | 1 | 2020-05-05 |
| 5 | 5 | 1 | 1 | 2020-05-05 |
| 6 | 5 | 1 | 1 | 2020-05-05 |
| 7 | 4 | 1 | 1 | 2020-05-05 |
| 7 | 6 | 1 | 1 | 2020-05-05 |
+----+-----+-----+-----+-----+
12 rows in set (0.00 sec)

mysql> select * from products;
+----+-----+-----+-----+
| p_id | p_name | p_cost | stock |
+----+-----+-----+-----+
| 1 | jeans | 1200 | 100 |
| 2 | T-shirt | 800 | 100 |
| 3 | jacket | 1000 | 100 |
| 4 | notebook | 50 | 99 |
| 5 | hat | 200 | 99 |
| 6 | sweater | 500 | 98 |
+----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from payments;
+----+-----+-----+-----+
| d_id | c_id | payment | d_date |
+----+-----+-----+-----+
| 1 | 1 | paid | 2020-09-04 |
| 3 | 6 | paid | 2018-09-04 |
| 4 | 1 | paid | 2021-07-04 |
| 5 | 4 | not-paid | 2020-05-15 |
| 6 | 7 | paid | 2020-05-08 |
+----+-----+-----+-----+
5 rows in set (0.04 sec)

Query OK, 0 rows affected (0.04 sec)

mysql>

```

2) Loop used to store all email ids in a stored procedure.

```

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;bhumia@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) Procedure to insert a new product into table with error handling into the stored procedure.

```

mysql> create procedure InsertNewProduct(IN inp_id int, IN inp_name varchar(100), IN inp_cost int, IN instock int) begin declare exit handler for 1062 select 'Duplicate keys error encountered' Message; declare exit handler for SQLEXCEPTION select 'SQLException encountered' Message; declare exit handler for SQLSTATE '23000' select 'SQLSTATE 23000' ErrorCode; insert into product(p_id,p_name,p_cost,stock) values(inp_id,inp_name,inp_cost,instock); select count(*) from product where p_id=inp_id; END$$

```