● **توضیحات پیاده سازی :**
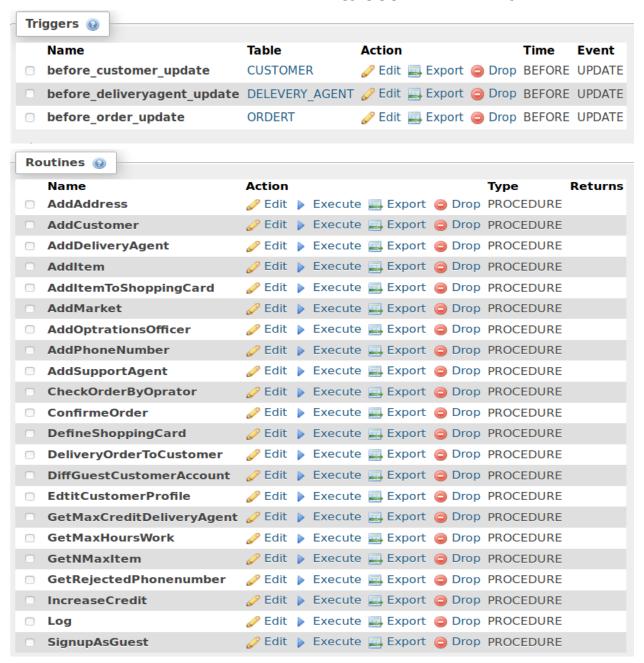
برای پیاده سازی این پروژه از ویژگی های Trigger , Procedure استفاده شده است.
تمامی دستورات، اضافه کردن ها و به روز رسانی ها توسط Procedure انجام می شود و
برای Log و فرایند های خودکار از Trigger استفاده شده است.
لیست Trigger و Procedure در زیر آورده شده است :

Triggers

	Name	Table	Action				Time	Event
☐	**before_customer_update**	CUSTOMER	🖉 Edit	📥 Export	⊖ Drop		BEFORE	UPDATE
☐	**before_deliveryagent_update**	DELEVERY_AGENT	🖉 Edit	📥 Export	⊖ Drop		BEFORE	UPDATE
☐	**before_order_update**	ORDERT	🖉 Edit	📥 Export	⊖ Drop		BEFORE	UPDATE

Routines

	Name	Action				Type	Returns
☐	**AddAddress**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddCustomer**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddDeliveryAgent**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddItem**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddItemToShoppingCard**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddMarket**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddOptrationsOfficer**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddPhoneNumber**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**AddSupportAgent**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**CheckOrderByOprator**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**ConfirmeOrder**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**DefineShoppingCard**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**DeliveryOrderToCustomer**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**DiffGuestCustomerAccount**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**EdtitCustomerProfile**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**GetMaxCreditDeliveryAgent**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**GetMaxHoursWork**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**GetNMaxItem**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**GetRejectedPhonenumber**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**IncreaseCredit**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**Log**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	
☐	**SignupAsGuest**	🖉 Edit	▶ Execute	📥 Export	⊖ Drop	PROCEDURE	

● کوئری ۱ :

Export of routine `GetNMaxItem`

```
 1  DELIMITER $$
 2  CREATE DEFINER=`root`@`localhost` PROCEDURE `GetNMaxItem`(IN `num` INT, IN `marketId` INT)
 3  BEGIN
 4      SELECT *
 5  FROM ITEM AS items
 6  INNER JOIN (SELECT MARKET_ITEM.itemId
 7                  FROM MARKET_ITEM
 8                  WHERE MARKET_ITEM.marketId = marketId
 9                  ORDER BY (MARKET_ITEM.max_num_item - MARKET_ITEM.amount) DESC
10                  LIMIT num) as marketItems
11  ON items.id = marketItems.itemId;
12  END$$
13  DELIMITER ;
```

Execution results of routine `GetNMaxItem`

id	name	price	itemId
1	Pashmak1	25000	1
2	Pashmak2	40000	2
3	Pashmak3	45000	3

• کوئری ۲ :

Export of routine `GetRejectedPhonenumber`

```
 1  DELIMITER $$
 2  CREATE DEFINER=`root`@`localhost` PROCEDURE `GetRejectedPhonenumber`()
 3  BEGIN
 4  SELECT *
 5  FROM PHONE_NUMBER
 6  WHERE PHONE_NUMBER.id IN (SELECT ORDERT.customerId
 7                              FROM ORDERT
 8                              WHERE ORDERT.orderStatus = 'reject')
 9  LIMIT 1;
10
11  END$$
12  DELIMITER ;
```

Execution results of routine `GetRejectedPhonenumber`

id	phonenumber
1	09120189176

• کوئری ۳:

Export of routine `GetMaxHoursWork`

```
 1  DELIMITER $$
 2  CREATE DEFINER=`root`@`localhost` PROCEDURE `GetMaxHoursWork`()
 3  BEGIN
 4  SELECT *
 5  FROM MARKET
 6  ORDER BY ((MARKET.closeTime - MARKET.openTime)) DESC
 7  LIMIT 1;
 8  END$$
 9  DELIMITER ;
```

Execution results of routine `GetMaxHoursWork`

id	name	city	address	phonenumber	manager	supportId	deliveryId	operationsId	openTime	closeTime
2	DDDD	adsad	24324qew	12331	asdasd	1	1	1	07:00:00	23:55:00

● کوئری ۴ :

Export of routine `GetMaxCreditDeliveryAgent`

```
1  DELIMITER $$
2  CREATE DEFINER=`root`@`localhost` PROCEDURE `GetMaxCreditDeliveryAgent`()
3  BEGIN
4
5  SELECT DELEVERY_AGENT.id, DELEVERY_AGENT.name, DELEVERY_AGENT.lastname,
   DELEVERY_AGENT.delevery_status, avr.avrCredit
6  FROM DELEVERY_AGENT
7  INNER JOIN (SELECT DELEVERY_AGENT.id, AVG(DELEVERY_AGENT.credit) AS avrCredit
8              FROM DELEVERY_AGENT
9              GROUP BY DELEVERY_AGENT.id) AS avr
10 ON avr.id = DELEVERY_AGENT.id
11 ORDER BY avr.avrCredit DESC
12 LIMIT 1;
13
14 END$$
```

Execution results of routine `GetMaxCreditDeliveryAgent`

id	name	lastname	delevery_status	avrCredit
1	Saleh	Saberi	busy	1227500.0000

• کوئری ۵:

Export of routine `DiffGuestCustomerAccount`

```
 1  DELIMITER $$
 2  CREATE DEFINER=`root`@`localhost` PROCEDURE `DiffGuestCustomerAccount`()
 3  BEGIN
 4  DECLARE avrCustomer INT;
 5  DECLARE avrGeustCustomer INT;
 6
 7  SELECT AVG(ORDER_ITEM.totallPrice)
 8  INTO avrCustomer
 9  FROM ORDERT, ORDER_ITEM
10  WHERE ORDER_ITEM.orderId = ORDERT.id AND ORDERT.customerId != '0';
11
12  SELECT AVG(ORDER_ITEM.totallPrice)
13  INTO avrGeustCustomer
14  FROM ORDERT, ORDER_ITEM
15  WHERE ORDER_ITEM.orderId = ORDERT.id AND ORDERT.customerId = '0';
16
17  SELECT avrCustomer;
18  SELECT avrGeustCustomer;
19  SELECT avrCustomer - avrGeustCustomer AS DIFF;
20  END$$
21  DELIMITER ;
```

Execution results of routine `DiffGuestCustomerAccount`

avrCustomer
2329375

avrGeustCustomer
22500

DIFF
2306875

• نمودار **ER** :