Coffeeshop Management System

DMDD SPRING 2023

FINAL PROJECT PRESENTATION - 04-13-2023

GROUP 6

About the Team

01

MADHURA KURHADKAR

ERD ANALYSIS,
PACKAGES,
TRIGGERS, VIEWS &
CLEAN-UP SCRIPTS

02

MANISH KANDUKURI

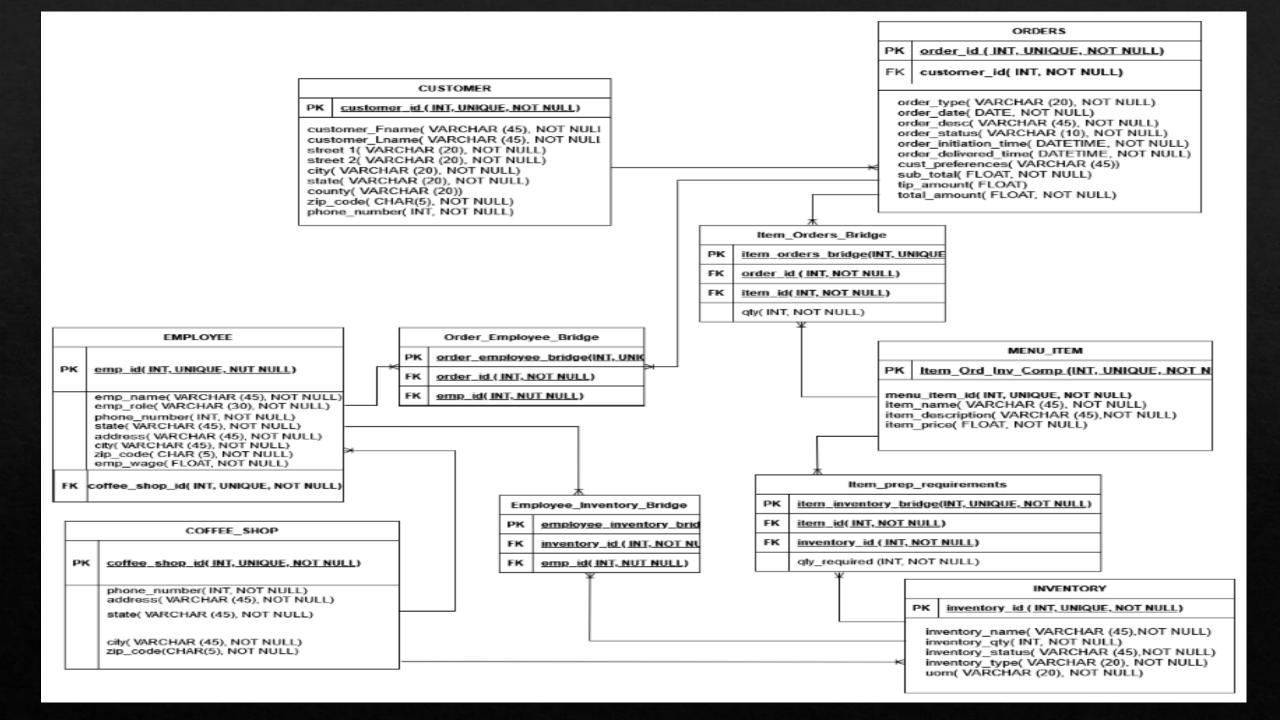
ERD ANALYSIS, DATA CREATION, VIEWS, FUNCTIONS & DOCUMENTATION

03

ABDULLAH ALNASSIR

ERD ANALYSIS, TEST-CASES, VIEWS & DOCUMENTATION

ER DIAGRAM



Deliverables

- **♦** Tables
- ♦ Views
- **♦**Triggers
- Stored procedures, functions, packages
- Execution of stored procedures, functions, and packages
- ♦ Reports

Tables

♦ Menu_Item

				∜ COF
1	Nitro Cold Brew	Exotic Cold Brew along with Fresh Almond Milk	8.95	1
2	Pumpkin Spice Latte	Latte in Fresh Whole Milk with 3 Pumpkin Spice Pumps	8.95	1
3	Caffe Mocha	Simply the Best Mocha ever	9.45	1
4	Caffe Americano	If American accent has a taste	4.5	1
5	Java Chip Frappuccino	Freshly made Java Chip Frappuccino	8.95	1
6	Signature Hot Chocolate	Hot Chocolate in Winter keeps you warm	7.95	1

♦ Inventory

∯ INVEN	♦ INVENTORY_NA	♦ INVEN	∮ INVENTORY_STATUS	∮ INVENTORY_TYPE	∯ UNIT	∜ co
10	Whole Milk	28.1	Available	Perishable	Gallon	1
11.	Almond Milk	29.5	Available	Perishable	Gallon	1
12	Hazelnut Syrup	20	Available	Perishable	Oz	1
13	Vanilla Syrup	-4.1	Unavailable	Perishable	Oz	1
14	Cups	200	Available	Non-Perishable	Pieces	1
15	Stirrer	300	Available	Non-Perishable	Pieces	1
16	Pumpkin Spi	-4	Unavailable	Perishable	Oz	1
17	Espresso Co	17	Available	Perishable	Gallon	1
18	Chocolate	20	Available	Perishable	Gallon	1
19	Sugar	28.4	Available	Perishable	Gallon	1
20	MOCHA Sauce	148	Available	Perishable	Oz	1
21	JAVA Chips	965	Available	Perishable	Pieces	1
22	Americano B	2952	Available	Perishable	Oz	1
23	Distilled W	83.8	Available	Perishable	Gallon	1
24	Chocolate S	180	Available	Perishable	Oz	1
25	Raspberry S	52	Available	Perishable	Oz	1

♦ Orders

∜ ORD	∜ CUST	♦ ORDER_TYPE	♦ ORDER_INI	♦ ORDER_STATUS	♦ ORDER_CO	♦ ORDER_DEL	∜ TOTAL	\$ co
100	80006	ONLINE	23-12-22	Ready for Pickup	12-12-22	12-12-22	8.95	1
101	80002	IN-STORE	08-01-23	Delivered	08-01-23	08-01-23	8.95	1
102	80004	IN-STORE	23-01-23	Ready for Pickup	23-01-23	23-01-23	9.95	1
103	80009	IN-STORE	15-02-23	Cancelled	15-02-23	15-02-23	9.45	1
104	80004	ONLINE	21-02-23	In Progress	21-02-23	21-02-23	26.85	1
105	80004	IN-STORE	05-03-23	Ready for Pickup	05-03-23	05-03-23	8.95	1
106	80007	ONLINE	13-03-23	Delivered	13-03-23	13-03-23	28.35	1
107	80005	IN-STORE	15-03-23	Ready for Pickup	15-03-23	15-03-23	17.9	1
108	80003	IN-STORE	18-03-23	In Progress	18-03-23	18-03-23	17.9	1
109	80003	ONLINE	05-04-23	Ready for Pickup	05-04-23	05-04-23	9	1
110	80003	IN-STORE	10-04-23	Ready for Pickup	10-04-23	10-04-23	8.95	1

Tables

Customer

	∜ CUST		∜ CITY		♦ PHONE_NUMBER	
80000	Kelly	Key	BOSTON	MASSACHUSETTS	8678978743	02-09-22
80001	Clark	Schroeder	CAMBRIDGE	MASSACHUSETTS	8678543563	01-10-22
80002	Elvis	Cardenas	BOSTON	MASSACHUSETTS	8678976098	11-11-22
80003	Rafael	Estes	BOSTON	MASSACHUSETTS	8678434563	12-11-22
80004	Colin	Lynn	LOWELL	MASSACHUSETTS	8678900063	29-11-22
80005	JACK	SPARROW	BOSTON	MASSACHUSETTS	8678976563	12-12-22
80006	Ram	Singh	BOSTON	MASSACHUSETTS	8678978700	23-12-22
80007	Ben	Deigo	CAMBRIDGE	MASSACHUSETTS	8678549993	01-01-23
80008	Big	San	BOSTON	MASSACHUSETTS	8578976098	12-01-23
80009	Paris	Wall	BOSTON	MASSACHUSETTS	8978434563	15-02-23
80010	Indy	Lynn	LOWELL	MASSACHUSETTS	8678980063	12-03-22

♦ Item_Order_Bridge

		♦ ORDER_ID	
1110	1	100	1
1111	2	100	3
1112	1	101	1
1113	6	101	2
1114	5	102	1
1115	2	102	2

♦ Item_Prep_Req

		♦ INVEN		
50001	2	10	0.1	Available
50002	2	16	8	Unavailable
50000	2	17	0.2	Available
50004	1	11	0.1	Available
50006	1	17	0.2	Available
50009	1	13	8	Unavailable
50011	3	20	2	Available
50012	3	19	0.2	Available
50010	3	24	2	Available
50014	4	23	0.3	Available
50016	4	22	2	Available
50019	5	21	5	Available

Tables

♦ Order_Employee

ORDER_EM		
2001	103	1003
1001	104	1003
1002	108	1004
2002	100	1002
1011	102	1002
2010	105	1002
2101	107	1002
1101	110	1002
1102	106	1002
2102	101	1002

Employee

∯ EMPL			PHONE_NUMBER		∯ CITY	\$STATE_NAME			∜ COFF
1000	Sue Tindale	Store_Manager	8578765439	3 Mass Ave	Boston	Massachus	2115	34	1
1001	Kelsey Cameron	Inventory_Manager	8579876543	43 Alphonsus Street	Boston	Massachus	2121	30	1
1002	Caldwell Veda	Order_Delivery_Emp	6172563748	369 Hunter Street	Boston	Massachus	2120	20	1
1003	Bucky Burnes	Barista	6177777345	75 Omingo Street	Boston	Massachus	2113	26	1
1004	Rupert Nickson	Barista	8569855210	16 Wilmington Street	Boston	Massachus	2118	24	1
1005	Montery Keel	Cashier	857987442	6 Brakes Street	Cambridge	Massachus	2111	20	1

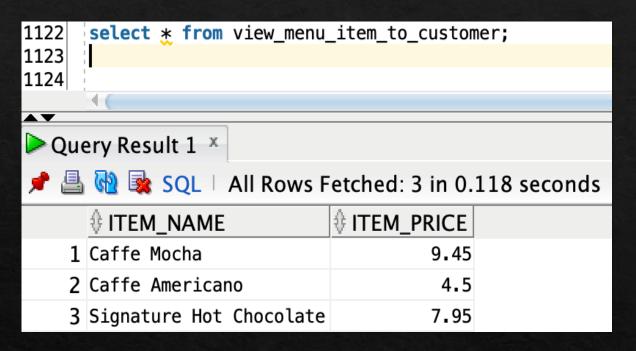
♦ coffee_shop

∯ C	♦ PHONE_NU		∯ CITY	\$STATE_NAME	∯ ZIP
1	6178282828	120 SouthBay	Boston	Massachusetts	2107

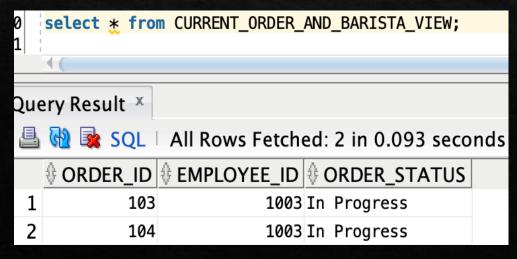
♦ Item_Order_Bridge

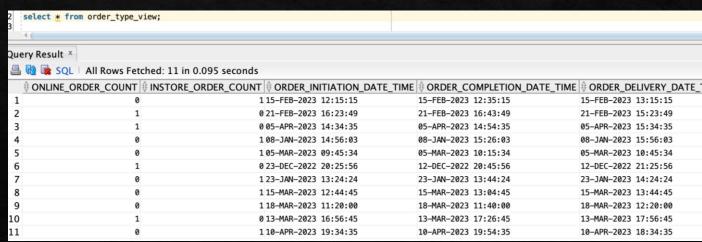
		♦ ORDER_ID	
1110	1	100	1
1111	2	100	3
1112	1	101	1
1113	6	101	2
1114	5	102	1
1115	2	102	2
1116	5	103	1
1117	3	103	3
1118	1	104	1
1119	2	104	3
1120	1	105	1

Views

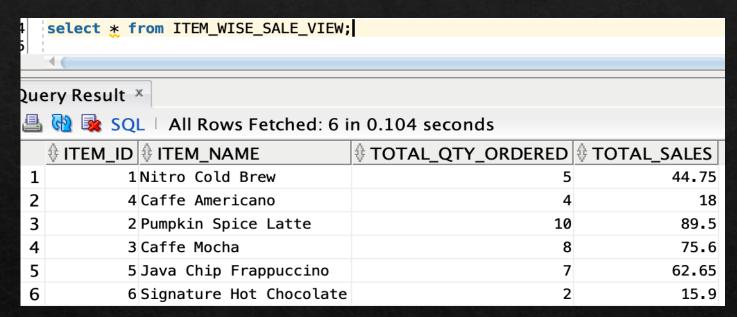


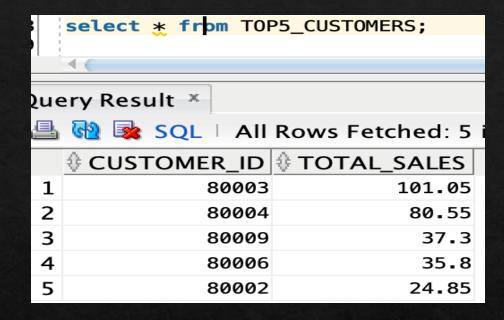
Query Result 1 × SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE 1 Caffe Mocha 9.45 2 Caffe Americano 4.5 3 Signature Hot Chocolate 7.95							
SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE Caffe Mocha 9.45 Caffe Americano 4.5	select * from view_menu	_item_to_customer;					
SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE Caffe Mocha 9.45 Caffe Americano 4.5	i i						
SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE Caffe Mocha 9.45 Caffe Americano 4.5							
SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE Caffe Mocha 9.45 Caffe Americano 4.5	16						
SQL All Rows Fetched: 3 in 0.118 ITEM_NAME ITEM_PRICE Caffe Mocha 9.45 Caffe Americano 4.5	uery Result 1 ×	Mary Result 1 X					
<pre></pre>							
1 Caffe Mocha 9.45 2 Caffe Americano 4.5	🚢 🚻 💸 SQL 🗆 All Rows F	etched: 3 in 0.118					
2 Caffe Americano 4.5		∜ ITEM_PRICE					
	1 Caffe Mocha	9.45					
3 Signature Hot Chocolate 7.95	2 Caffe Americano	4.5					
	3 Signature Hot Chocolate	7.95					

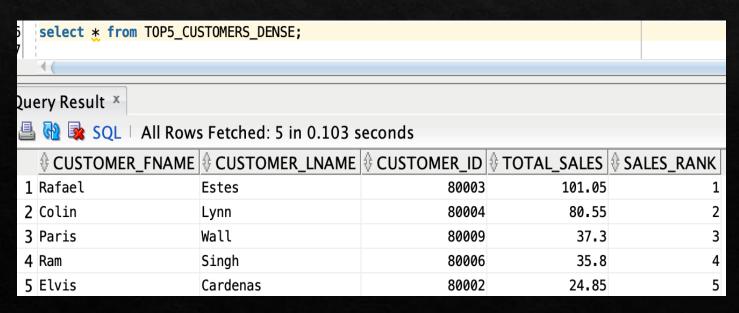


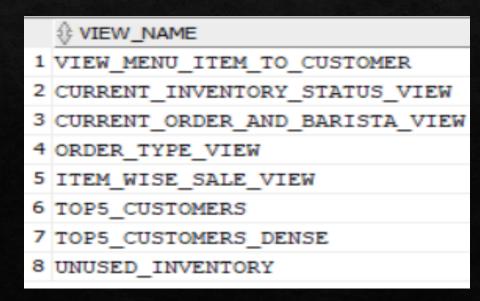


Views



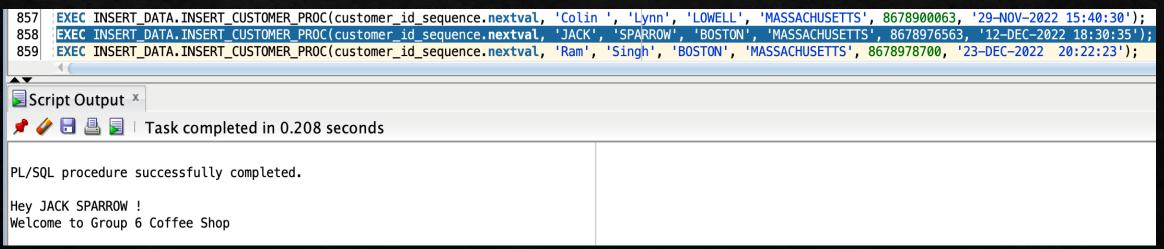






Triggers

```
1112
     update orders set order_status = 'Cancelled'
1113
     where order id = '103'
      and order status not in ('Delivered', 'Ready for Pickup', 'Cancelled');
|1114|
1115
Script Output X
📌 🥓 🖥 🖺 🔋 🗆 Task completed in 0.208 seconds
Trigger begins...
statement 1 : order_id = 103, order_staus = In Progress
Statement 2 : item_id = 5 , QTY_ORDERED = 1
Statement 3 : QTY_REQUIRED = 5, INVENTORY_ID = 21
Statement 3 : QTY_REQUIRED = .1, INVENTORY_ID = 10
Statement 3 : QTY_REQUIRED = .05, INVENTORY_ID = 13
Statement 3 : QTY REQUIRED = 2, INVENTORY ID = 20
Data updated!!
Statement 2 : item_id = 3 , QTY_ORDERED = 3
Statement 3 : QTY_REQUIRED = 2, INVENTORY_ID = 20
Statement 3 : QTY REQUIRED = .2, INVENTORY ID = 19
Statement 3 : QTY REQUIRED = 2, INVENTORY ID = 24
Data updated!!
```



Stored procedures, functions, packages

♦ OBJECT_NAME	PROCEDURE_NAME	
INSERT_DATA	INSERT_COFFEE_SHOP	PACKAGE
INSERT_DATA	INSERT_CUSTOMER_PROC	PACKAGE
INSERT_DATA	INSERT_EMPLOYEE	PACKAGE
INSERT_DATA	INSERT_EMPLOYEE_INVENTORY	PACKAGE
INSERT_DATA	INSERT_INVENTORY	PACKAGE
INSERT_DATA	INSERT_ITEM_ORDER_BRIDGE	PACKAGE
INSERT_DATA	INSERT_ITEM_PREP_REQ	PACKAGE
INSERT_DATA	INSERT_MENU_ITEM	PACKAGE
INSERT_DATA	INSERT_ORDERS	PACKAGE
INSERT_DATA	INSERT_ORDER_EMPLOYEE	PACKAGE

Functions

OBJECT_NAME	
APPLY_DISCOUNT15	FUNCTION
UPDATE_MENU_ITEM	FUNCTION
CHECK_INVENTORY_AVAILABILITY	FUNCTION

♦ Apply_Discount15 is a function that applies 15% discount on any order.

```
1098 DECLARE
       v_discounted_amount NUMBER;
1100
1101
       v_discounted_amount := apply_discount15(108);
1102
      DBMS_OUTPUT.PUT_LINE('Discounted amount: ' || v_discounted_amount);
1103
1104
1105
     SELECT * FROM orders WHERE order_id = 108 ;
Script Output *
📌 🥜 🖥 🚇 📘 🗆 Task completed in 0.208 seconds
Function APPLY DISCOUNT15 compiled
Order id 108
Trigger begins...
statement 1 : order_id = 108, order_staus = In Progress
Statement 2 : item_id = 5 , QTY_ORDERED = 2
Statement 3 : QTY_REQUIRED = 5, INVENTORY_ID = 21
Statement 3 : QTY_REQUIRED = .1, INVENTORY_ID = 10
Statement 3 : QTY_REQUIRED = .05, INVENTORY_ID = 13
Statement 3 : QTY_REQUIRED = 2, INVENTORY_ID = 20
Data updated!!
Discounted amount: 15.215
```

Flow

