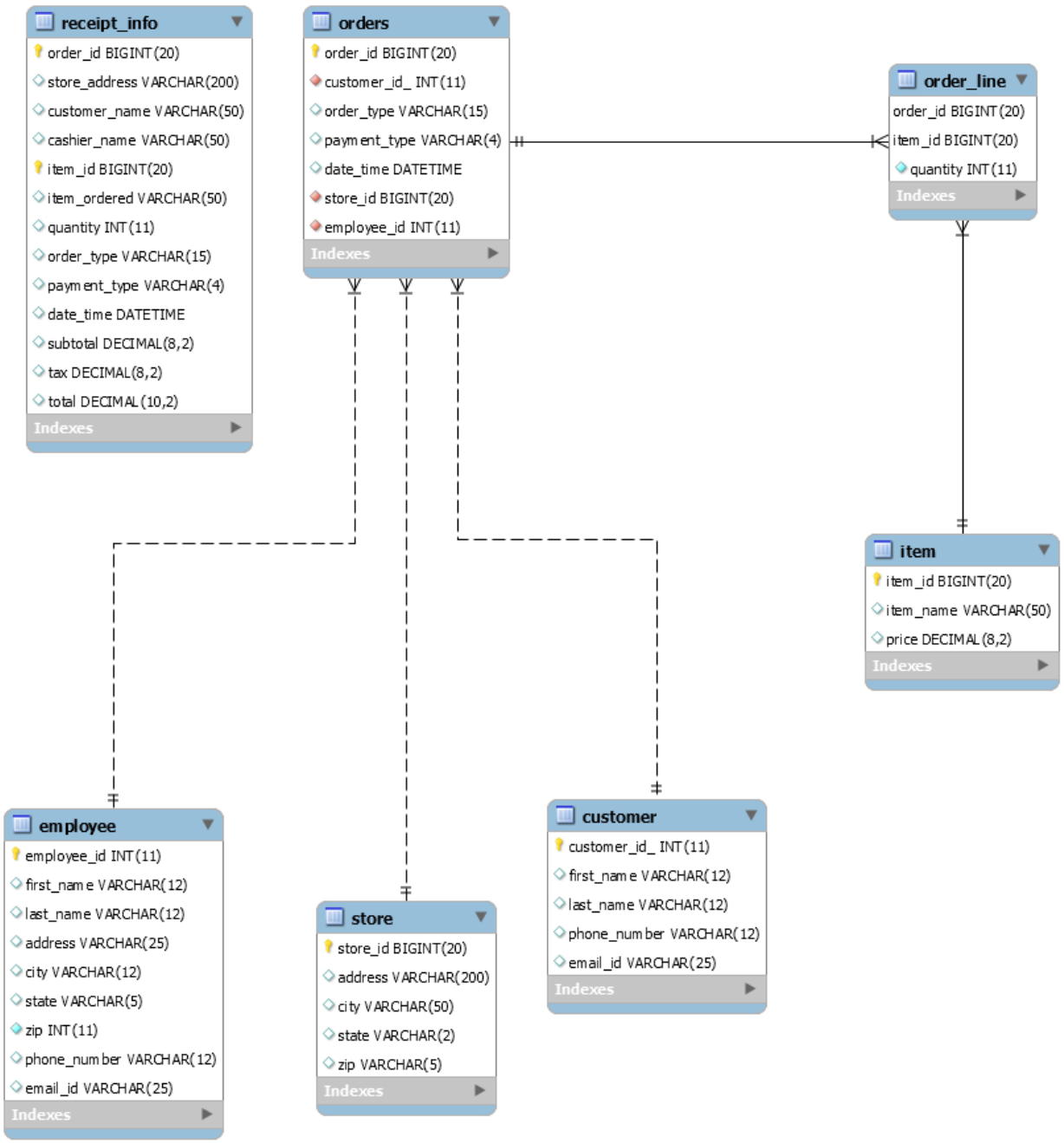
Submission by: Stuti Sanghavi

Student ID: 00001587699

SQL AND VIEWS ASSIGNMENT FOR CHIPOTLE DATA

Please Note: Attaching a copy of the EER diagram to help understand the model better. Receipt_info is the denormalized table, and the remaining tables are all normalized tables.



1. ***List the names of the items available in the menu?***

```
--Q1: List the names of the items available in the menu?

SELECT item_id, item_name
FROM item;
```

	item_id	item_name
1	1	Bowl
2	2	Burritto
3	3	Tacos
4	4	Veggie Bowl
5	5	Chips

2. ***Select orders with item quantity more than 1?***

```
--Q2: Select orders with item quantity more than 1?
SELECT order_id, item_ordered, quantity
FROM receipt_info
WHERE quantity > 1;
```

	order_id	item_ordered	quantity
1	421	Burritto	2
2	423	Tacos	2
3	424	Tacos	3
4	426	Veggie Bowl	2
5	429	Burritto	2

3. ***How many customers did each Kristina and Mike serve?***

```
--Q3: How many customers did each Kristina and Mike serve?
SELECT cashier_name, COUNT(order_id) AS Customer_served
FROM receipt_info
GROUP BY cashier_name;
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQ

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	cashier_name	customer_served
1	Mike	5
2	Kristina	6

4. ***What percentage of orders out of the total orders are dine-in?***

```
--Q4: What is the percentage of orders that are dine-in?
SELECT SUM(CASE WHEN order_type = 'Dine In' THEN 1 ELSE 0 END)/COUNT(*)*100 AS pct_order_dine_in
FROM orders;
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL History

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	pct_order_dine_in
1	54.54545454545455

5. ***How many payments by cash vs payments by card?***

```
--Q5: How many payments are by cash and how many by card?

 SELECT payment_type, COUNT(order_id)
 FROM orders
 GROUP BY payment_type;
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL His

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	payment_type	count(order_id)
1	Cash	4
2	Card	7

6. ***Get orders with order total more than $10***

```
29 --Q6: Get only the orders with order total more than $10
30  SELECT order_id, customer_name,  item_ordered, total
31  FROM receipt_info
32  WHERE total > 10:
```

	order_id	customer_name	item_ordered	total
1	421	Jenette Short	Burritto	17.37
2	423	Anthony Bennett	Tacos	17.37
3	424	Oliver Montoya	Tacos	26.06
4	426	Flynn Mcneil	Veggie Bowl	17.37
5	429	Ria Z. Roy	Burritto	17.37

7. ***Which item sells the most? Arrange by highest to lowest.***

```
34 --Q7: Which item sells the most? Arrange by highest to lowest.
35
36  SELECT item_ordered, SUM(quantity) AS Total_quantity
37  FROM receipt_info
38  GROUP BY item_ordered
39  ORDER BY 2 DESC;
40
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL History

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	item_ordered	total_quantity
1	Burritto	6
2	Tacos	6
3	Veggie Bowl	3
4	Bowl	2

8. ***Give the number of stores by each city?***

```
41 --Q8: Give the number of stores by each city?
42
43 SELECT city, COUNT(store_id) AS num_of_stores
44 FROM store
45 GROUP BY city;
46
47
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | S

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	city	num_of_stores
1	Newark	1
2	Fremont	1

9. ***What is the total quantity of Burritto ordered?***

```
56 --09: What is the total quantity of Burritto ordered?
57
58 SELECT item_ordered, SUM(quantity)
59 FROM receipt_info
60 GROUP BY item_ordered
61 HAVING item_ordered = 'Burritto';
62
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL Hi

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	item_ordered	sum(quantity)
1	Burritto	6

10. Select the total number of customers served?

```
55 --Q10: Select the total number of customers served?
56
57 SELECT COUNT(*) AS total_cust_served
58 FROM customer;
59
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace

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	total_cust_served
1	11

11. Select all the details of customers whose name starts with 'M'

```
66 --Q11: Select all the details of customers whose name starts with 'M'
67
68 SELECT *
69 FROM customer
70 WHERE first_name LIKE 'M%';
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL History

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	customer_id_	first_name	last_name	phone_number	email_id
1	11117	Mari	Reynolds	510-111-117	Mari.Reynolds@g…
2	11118	Matt	Justice	510-111-118	Matt.Justice@gmai…

12. Create a view for getting the number of orders by day (from normalized table)

```
75 -- Create a view for getting number of orders by each day
76
77 CREATE VIEW orders_by_day AS
78 SELECT to_char(date_time, 'MM.DD.YY') order_date, COUNT(*) AS daily_orders
79 FROM orders
80 GROUP BY to_char(date_time, 'MM.DD.YY')
81 ORDER BY to_char(date_time, 'MM.DD.YY') ASC;
```

Displaying outputs for the above created view.

```
83 SELECT * FROM orders_by_day;
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL Hist

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	order_date	daily_orders
1	01.09.20	1
2	01.10.20	4
3	01.11.20	3
4	01.12.20	3

13. ***Create a view for displaying the order details in Fremont branch (from denormalized table)***

```
80  --Create a view for all the customers in fremont
81 CREATE VIEW orders_in_fremont AS
82 SELECT customer_name, item_ordered, quantity
83 FROM receipt_info
84 WHERE store_address LIKE '%Mowry%';
```

Displaying outputs for the above created view.

```
86 SELECT * FROM orders_in_fremont;
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace | SQL History

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	customer_name	item_ordered	quantity
1	Jenette Short	Burritto	2
2	Brynne Alvarez	Bowl	1
3	Anthony Bennett	Tacos	2
4	Oliver Montoya	Tacos	3

14. Create a view with all the items having price more than $5 (from normalized table)

```
69
70 --Create a view for all the items price more than $5
71
72 CREATE VIEW price AS
73 SELECT item_name, price
74 FROM item
75 WHERE price > 5;
```

Displaying outputs for the above created view.

```
77 SELECT * FROM price;
78
```

Query Result | Script Output | DBMS Output | Explain Plan | Autotrace

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	item_name	price
1	Bowl	7.95
2	Burritto	7.95
3	Tacos	7.95
4	Veggie Bowl	7.95