DBMS – Mini Project

Food Delivery Management System

Submitted by:

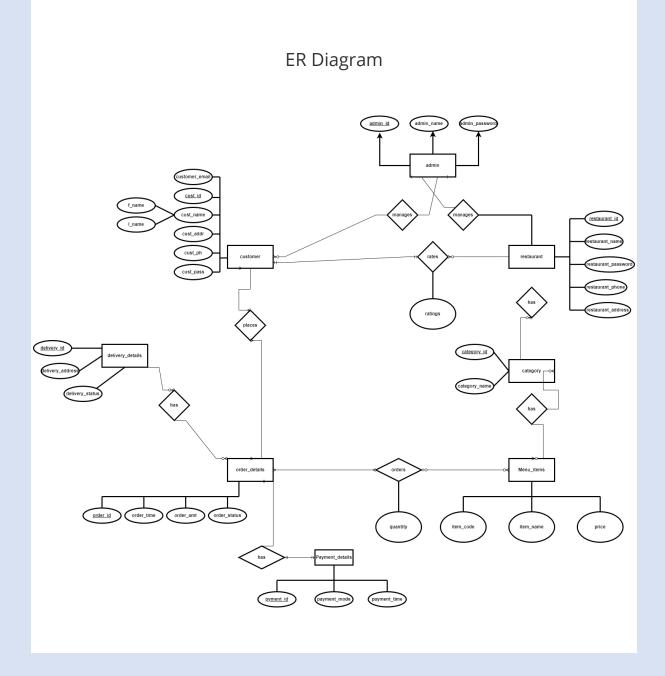
Rithvik Grandhi

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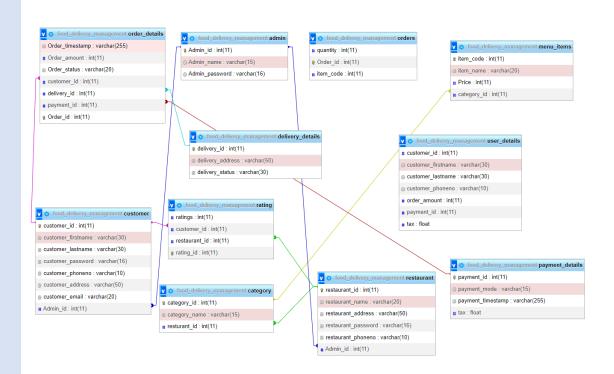
V Semester Section F

Short description and Scope of the project

It is an application based on streamlit and sql that allows food delivery apps to handle their food delivery orders from a single place, known as the Food Delivery System. It enables us to track the menu, track the delivery status, and keep track of customer feedback in one convenient location.



Relational Schema



DDL and Populating

```
CREATE TABLE `admin` (
  `Admin_id` int(11) NOT NULL,
  `Admin_name` varchar(15) NOT NULL,
  `Admin_password` varchar(16) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--
  -- Dumping data for table `admin`
--

INSERT INTO `admin` (`Admin_id`, `Admin_name`, `Admin_password`) VALUES
(1, 'Rithvik Grandhi', 'Rithvik@123'),
(2, 'Admin2', 'Admin2@123'),
(3, 'test', 'test@123');
```

```
CREATE TABLE `category` (
  `category id` int(11) NOT NULL,
  `category_name` varchar(15) NOT NULL,
 `resturant_id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
INSERT INTO `category` (`category_id`, `category_name`, `resturant_id`) VALUES
(201, 'SOUTH-INDIAN', 112),
(202, 'NORTH-INDIAN', 111),
(203, 'ITALIAN', 121),
(204, 'CHINESE', 113),
(206, 'SNACKS', 118),
(207, 'BEVERAGES', 119),
(208, 'DESSERTS', 120);
CREATE TABLE `customer` (
  `customer_id` int(11) NOT NULL,
  `customer_firstname` varchar(30) NOT NULL,
  `customer_lastname` varchar(30) NOT NULL,
 `customer_password` varchar(16) NOT NULL,
  `customer_phoneno` varchar(10) NOT NULL,
 `customer_address` varchar(50) NOT NULL,
  `customer_email` varchar(20) NOT NULL,
 `Admin_id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `customer`
INSERT INTO `customer` (`customer_id`, `customer_firstname`,
`customer_lastname`, `customer_password`, `customer_phoneno`,
`customer_address`, `customer_email`, `Admin_id`) VALUES
(101, 'Rishikesh', 'Sastri', 'gomma@123', '9348736640', 'Akshya Nagar 1st
Block 1st Cross, Rammurthy\r\nnagar,', 'chad@gmail.com', 1),
```

```
(102, 'Jainam', 'Shah', 'Jainu@123', '9924567892', '117, Examiner Bldg,
Nagindas Master Road,\r\nFort,Mu', 'jainam33@gmail.com', 2),
(103, 'Aman', 'Pandya', 'Aman@123', '7834578923', 'L 69 Sector 11, Delhi, Uttar
Pradesh201301', 'aman@gmail.com', 2),
(104, 'Heer', 'Madia', 'Her@123', '8902345789', 'Bee House 138, Kodambakkam
High Road,\r\nNungambakka', 'heer1723@gmail.com', 1),
(105, 'Akanksha', 'Yadav', 'Akayad@123', '9934654001', '295 Aj-kauser Road:10,
West\r\nMarredpally,Hydrebad,', 'akuu@gmail.com', 2),
(106, 'Karan', 'Punjabi', 'karpun@123', '9934688001', 'Shopno1, Nirmal House,
Tembhi Naka, Opp\r\nJain Mand', 'karan12@gmail.com', 1),
(107, 'Divya', 'Mulchandani', 'divmul@123', '9874688001', 'A/3, Tejpal Indl
Estate, Andheri Kurla\r\nRoad, Andh', 'div3421@gmail.com', 1),
(108, 'Celia', 'Anthony', 'Celia@123', '7834654881', '134/135, shopno 12,14,
Ground Floor\r\nNagarathpet Ma', 'Celia44@gmail.com', 2),
(109, 'Johnson', 'Thomas', 'Jthomas@123', '9931888912', ' A/108, A/108 1st,
Doctor House,\r\nPaldi,Ahmeadabad', 'jthomas550@gmail.com', 1),
(110, 'Dhara', 'Bhatt', 'Dhara@123', '9875678001', '66 Sector 24 Mujessar, Ram
Swaroop\r\nColony,Delhi,H', 'dbhatt45@gmail.com', 2),
(1929, 'adjlsll', 'sdaklj', 'dwasldj', '8888888888', 'jlkasfjsa', 'jsadklj',
1);
DELIMITER $$
CREATE TRIGGER `phone_warn` BEFORE INSERT ON `customer` FOR EACH ROW BEGIN
IF NEW.customer_phoneno <10000000000 or NEW.customer_phoneno>9999999999
signal sqlstate '45000' set message text = 'Invalid phone number';
END IF;
END
$$
DELIMITER;
-- Table structure for table `delivery details`
CREATE TABLE `delivery_details` (
  `delivery id` int(11) NOT NULL,
  `delivery_address` varchar(50) NOT NULL,
 `delivery_status` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
 - Dumping data for table `delivery details`
```

```
INSERT INTO `delivery details` (`delivery id`, `delivery address`,
`delivery status`) VALUES
(401, 'Akshya Nagar 1st Block 1st Cross, Rammurthy nagar, B', 'Delivered'),
(402, 'Shopno1, Nirmal House, Tembhi Naka, Opp Jain Mandi', 'Delivered'),
(403, 'L 69 Sector 11, Delhi, Uttar Pradesh - 201301', 'Preparing'),
(404, 'Bee House 138, Kodambakkam High Road, Nungambakkam', 'Picked-up'),
(405, '295 Aj-kauser Road:10, West Marredpally, Hydrebad, A', 'Delivered'),
                                                            'Preparing'),
(406, '117, Examiner Bldg, Nagindas Master Road, Fort, Mum',
(407, 'A/3, Tejpal Indl Estate, Andheri Kurla Road, Andhe', 'Preparing'),
(408, '134/135, shopno 12,14, Ground Floor Nagarathpet Mai', 'Delivered'),
(409, '66 Sector 24 Mujessar, Ram Swaroop Colony, Delhi, Ha', 'Picked-up'),
(410, 'rahul\'s house, bangalore', 'Delivered');
-- Table structure for table `menu items`
CREATE TABLE `menu_items` (
  `item_code` int(11) NOT NULL,
  `item_name` varchar(20) NOT NULL,
  `Price` int(11) NOT NULL,
 `category_id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `menu_items`
INSERT INTO `menu_items` (`item_code`, `item_name`, `Price`, `category_id`)
VALUES
(301, 'White Pasta', 230, 203),
(302, 'Arabita Pasta', 200, 203),
(303, 'Magherita pizza', 400, 203),
(304, 'gotala dosa', 300, 201),
(305, 'uttampam', 115, 201),
(306, 'idli-sambhar', 120, 201),
(307, 'aloo-cheese paratha', 120, 202),
(308, 'Paneer paratha', 250, 202),
(309, 'chole kulche', 100, 202),
(310, 'Dry manchrian', 200, 204),
(311, 'chinese bhel', 150, 204),
(312, 'Fried rice', 210, 204),
(316, 'waffle', 220, 208),
(317, 'chocolate brownie', 115, 208),
```

```
(318, 'pancakes', 120, 208),
(319, 'burger', 55, 206),
(320, 'french fries', 100, 206),
(321, 'muskabun', 25, 206),
(322, 'peach mojito ', 180, 207),
(323, 'hazlenut coffee', 135, 207),
(324, 'kewi juice', 90, 207);
-- Table structure for table `orders`
CREATE TABLE `orders` (
  `quantity` int(11) NOT NULL,
  `Order_id` int(11) NOT NULL,
 `item_code` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `orders`
INSERT INTO `orders` (`quantity`, `Order_id`, `item_code`) VALUES
(1, 12344, 301),
(2, 12345, 302),
(2, 12346, 303),
(4, 12347, 304),
(1, 12348, 305),
(2, 12349, 306),
(3, 12350, 307),
(1, 12351, 308),
(2, 12352, 309),
(8, 12353, 310),
(2, 12354, 311),
(13, 421442, 13455);
-- Table structure for table `order_details`
CREATE TABLE `order_details` (
 `Order_timestamp` varchar(255) NOT NULL,
  `Order_amount` int(11) NOT NULL,
 `Order_status` varchar(20) NOT NULL,
```

```
customer_id` int(11) NOT NULL,
  `delivery id` int(11) NOT NULL,
  `payment id` int(11) NOT NULL,
  `Order_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `order_details`
INSERT INTO `order_details` (`Order_timestamp`, `Order_amount`,
`Order_status`, `customer_id`, `delivery_id`, `payment_id`, `Order_id`)    VALUES
('07:33:77', 2950, 'Preparing', 101, 401, 501, 12344),
('09:15:00', 2200, 'Ready', 102, 402, 502, 12345),
('11:25:00', 200, 'Preparing', 103, 403, 503, 12346),
('15:55:00', 1200, 'Delayed', 104, 404, 504, 12347),
('13:05:00', 2100, 'Preparing', 105, 405, 505, 12348),
('13:05:00', 500, 'Ready', 106, 406, 506, 12349),
('13:05:00', 2555, 'Preparing', 108, 408, 508, 12351),
('13:05:00', 2100, 'Preparing', 109, 409, 509, 12352),
('12:12:00', 1070, 'Preparing', 107, 407, 507, 12359);
-- Table structure for table `payment_details`
CREATE TABLE `payment details` (
  `payment_id` int(11) NOT NULL,
  `payment_mode` varchar(15) NOT NULL,
  `payment_timestamp` varchar(255) NOT NULL,
  `tax` float DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `payment_details`
INSERT INTO `payment_details` (`payment_id`, `payment_mode`,
 payment_timestamp`, `tax`) VALUES
(501, 'Online', '15:12:33', 20),
(502, 'COD', '11:13:43', 20),
(503, 'CARD', '13:12:28', 20),
(504, 'COD', '15:12:03', 20),
(505, 'Online', '14:12:12', 20),
(506, 'COD', '01:13:13', 20),
(507, 'CARD', '09:08:48', 20),
```

```
(508, 'COD', '00:07:53', 20),
(509, 'Online', '17:17:37', 20),
(510, 'CARD', '19:19:22', 20);
-- Table structure for table `rating`
CREATE TABLE `rating` (
  `ratings` int(11) NOT NULL,
 `customer_id` int(11) DEFAULT NULL,
 `restaurant_id` int(11) DEFAULT NULL,
 `rating_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `rating`
INSERT INTO `rating` (`ratings`, `customer_id`, `restaurant_id`, `rating_id`)
VALUES
(5, 103, 113, 1),
(4, 101, 114, 2),
(2, 102, 115, 3),
(4, 104, 116, 4),
(1, 105, 117, 5),
(3, 106, 118, 6),
(5, 107, 119, 7),
(5, 102, 119, 8),
(4, 103, 119, 9),
(2, 106, 119, 10),
(5, 101, 119, 11),
(1, 103, 119, 12),
(2, 108, 119, 13),
(4, 102, 119, 15),
(5, 104, 119, 16),
(2, 107, 119, 17);
-- Table structure for table `restaurant`
CREATE TABLE `restaurant` (
 `restaurant_id` int(11) NOT NULL,
```

```
`restaurant_name` varchar(20) NOT NULL,
  `restaurant_address` varchar(50) NOT NULL,
  `restaurant password` varchar(16) NOT NULL,
  `restaurant_phoneno` varchar(10) NOT NULL,
  `Admin id` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `restaurant`
INSERT INTO `restaurant` (`restaurant_id`, `restaurant_name`,
 restaurant_address`, `restaurant_password`, `restaurant_phoneno`, `Admin_id`)
VALUES
(111, 'Karavalli', 'Vivanta Bengaluru, 66, Residency Rd, Bengaluru, Ka',
'Kara@123', '8066604545', 1),
(112, 'Hatch Malleshwaram', '3rd Floor 30, 1st, Sampige Rd, Malleswara,
Bengalu', 'Maha@123', '8762203148', 2),
(113, 'Spice Terrace', ' 24, JW Marriott Bengaluru, 1, Vittal Mallya Rd, A',
'Spice@123', '8067189999', 1),
(114, 'Yauatcha Mumbai', 'Raheja Tower, Bandra Kurla Complex, Bandra East, M',
'Yach@123', '9222222800', 2),
(115, 'Ummrao', 'C.T.S No 215 Andheri Kurla Road Andheri east, Mumb',
'Umm@123', '9773817937', 2),
(116, 'Masque', 'Masque, Unit G3, Shree Laxmi Woollen Mills, Shakti',
'Mas@123', '9819069222', 1),
(117, 'Tafri Baaz Cafe', ' Vikas Surya Plaza, G-70 & 78 Plot no-18, Sector 3',
'Tf@123', '8586858111', 1),
(118, 'Sorrento', 'Ground Level Shangri-La s - Eros Hotel, 19, Ashoka',
'Sor@123', '1141191040', 2),
(119, 'Varq', 'The Taj Mahal Hotel, No.1, Near, Man Singh Rd, Kha', 'Var@123',
'1166566162', 1),
(120, 'AnalakshmiRestaurant', 'No 6 Mayor Ramanathan Salai, Spur Tank road,
Chenn', 'Aka@123', '4428368333', 2),
(121, 'Grand Chola Hotel', '63, Anna Salai, Little Mount, Guindy, Chennai,
Tam', 'Gra@123', '4222000011', 1),
(122, 'Rajwadu', 'Nr. Jivraj Tolnaka, Behind Ambaji Temple, Malav Ta',
'Raj@123', '7926643839', 2),
(123, 'Vishalla', 'Vasna Rd, Opp. Tol Naka, Rehnuma Society, Sanklit',
'Vish@123', '8889323457', 1),
(124, 'Tomatos', 'Mardia Plaza, Ground Floor, 1, 2, 3, Chimanlal Gir',
'Toma@123', '7926461998', 1);
```

Join queries

For all orders, get the order_ids, order_amount and order_status

```
SELECT order_details.order_id,
order_details.Order_amount,delivery_details.delivery_status
FROM order_details
JOIN delivery_details
ON order_details.delivery_id = delivery_details.delivery_id;
```

order_id	Order_amount	delivery_status
12344	1400	Delivered
12345	2200	Delivered
12346	200	Preparing
12347	1200	Picked-up
12348	2100	Delivered
12349	2100	Preparing
12350	2100	Preparing
12351	2100	Delivered
12352	2100	Picked-up

Show all restaurant names and addresses which have a rating of 5

```
SELECT restaurant.restaurant_name, restaurant.restaurant_address
FROM restaurant
JOIN rating
ON restaurant.restaurant_id = rating.restaurant_id
WHERE rating.ratings = 5;
```

restaurant_name	restaurant_address
Karavalli	Vivanta Bengaluru, 66, Residency Rd, Bengaluru, Ka
Varq	The Taj Mahal Hotel, No.1, Near, Man Singh Rd, Kha
Vishalla	Vasna Rd, Opp. Tol Naka, Rehnuma Society, Sanklit
AnalakshmiRestaurant	No 6 Mayor Ramanathan Salai, Spur Tank road, Chenn
Spice Terrace	24, JW Marriott Bengaluru, 1, Vittal Mallya Rd, A

Get all the dishes which belong to either of categories NORTH-INDIAN or SOUTH-INDIAN

```
SELECT menu_items.item_name,category.category_name
FROM menu_items
JOIN category
ON menu_items.category_id = category.category_id
WHERE category.category_name = 'NORTH-INDIAN' OR category.category_name =
'SOUTH-INDIAN';
```

item_name	category_name
gotala dosa	SOUTH-INDIAN
uttampam	SOUTH-INDIAN
idli-sambhar	SOUTH-INDIAN
aloo-cheese paratha	NORTH-INDIAN
Paneer pasanda	NORTH-INDIAN
chole kulche	NORTH-INDIAN

get names of customers who gave a 4 and above rating to any restaurant

```
SELECT customer.customer_firstname, customer.customer_lastname, rating.ratings
FROM customer
JOIN rating
ON customer.customer_id = rating.customer_id
WHERE rating.ratings >= 4;
```

customer_firstname	customer_lastname	ratings
Aman	Pandya	5
Harsh	Mehta	4
Heer	Madia	4
Divya	Mulchandani	5
Aman	Pandya	5
Aman	Pandya	4
Dhara	Bhatt	4
Jainam	Shah	5
Divya	Mulchandani	5

Aggregate functions

1)

Select order_id which costed > 1000

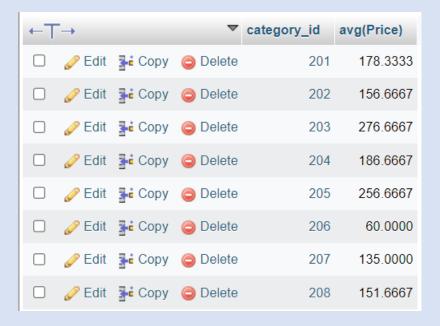
SELECT COUNT(Order_id) FROM order_details WHERE Order_amount>1000;

COUNT(Order_id)

2)

Avg price of dishes in each category

SELECT category_id,avg(Price) FROM menu_items GROUP BY category_id;



3)

Order frequency of payment method in descending order

select payment_mode, COUNT(payment_mode) AS MOST_FREQUENT from payment_details
GROUP BY payment_mode ORDER BY COUNT(payment_mode) DESC;

payment_mode	MOST_FREQUENT
COD	4
Online	3
CARD	3

4) Total sales done in a day

SELECT sum(order_amount) FROM order_details;

sum(order_amount)
15600

Set operations

Print union of restaurants with rating of either 3 or 5

SELECT restaurant_id,ratings FROM rating WHERE rating.ratings = 5 UNION SELECT restaurant_id,ratings FROM rating WHERE rating.ratings = 3;

restaurant_id	ratings
113	5
119	5
118	3

Print all customer_ids who haven't given a rating

select customer_id from customer except select customer_id from rating;

customer_id 109 110

select * from delivery_details except select * from delivery_details where delivery_status = 'Delivered'

delivery_id	delivery_address	delivery_status
403	L 69 Sector 11,Delhi,Uttar Pradesh-201301	Preparing
404	Bee House 138, Kodambakkam High Road, Nungambakkam	Picked-up
406	117, Examiner Bldg, Nagindas Master Road, Fort,Mum	Preparing
407	A/3, Tejpal Indl Estate, Andheri Kurla Road, Andhe	Preparing
409	66 Sector 24 Mujessar, Ram Swaroop Colony, Delhi, Ha	Picked-up

Functions and procedures

```
DELIMITER $$
CREATE PROCEDURE south_indian()
BEGIN
    select * from menu_items
    where category_id = 201;
END$$
DELIMITER;
   Execution results of routine `south_indian`
    item_code
               item_name
                            Price category_id
    304
               gotala dosa
                            300
                                  201
    305
                            115
                                  201
               uttampam
    306
                idli-sambhar 120
                                  201
DELIMITER $$
CREATE PROCEDURE north_indian()
BEGIN
    select * from menu_items
    where category_id = 202;
END$$
DELIMITER;
  Execution results of routine `north_indian`
   item_code item_name
                                 Price category_id
   307
              aloo-cheese paratha 120
                                        202
   308
              Paneer paratha
                                 250
                                        202
   309
              chole kulche
                                 100
                                        202
```

```
DELIMITER $$
CREATE PROCEDURE chinese()
BEGIN
    select * from menu_items
    where category_id = 204;
END$$
DELIMITER;
   Execution results of routine 'chinese'
    item_code item_name
                             Price category_id
               Dry manchrian 200
    310
                                   204
               chinese bhel
                                   204
    311
                            150
    312
               Fried rice
                             210
                                   204
DELIMITER $$
CREATE PROCEDURE italian()
BEGIN
    select * from menu_items
    where category_id = 203;
END$$
DELIMITER;
   Execution results of routine 'italian'
    item_code item_name
                              Price category_id
    301
               White Pasta
                              230
                                     203
                              200
    302
               Arabita Pasta
                                     203
    303
               Magherita pizza 400
                                     203
DELIMITER $$
CREATE PROCEDURE desserts()
BEGIN
    select * from menu_items
    where category_id = 208;
END$$
DELIMITER;
```

Execution results of routine 'desserts'

item_code	item_name	Price	category_id
316	waffle	220	208
317	chocolate brownie	115	208
318	pancakes	120	208

- -

DELIMITER \$\$

CREATE PROCEDURE beverages()

BEGIN

select * from menu_items
where category_id = 207;

END\$\$

DELIMITER;

Execution results of routine 'beverages'

item_code	item_name	Price	category_id
322	peach mojito	180	207
323	hazlenut coffee	135	207
324	kewi juice	90	207

Triggers and cursors

1)Trigger to warn user when he enters a wrong phone number

```
delimiter $$
CREATE TRIGGER phone_warn BEFORE INSERT
ON customer
FOR EACH ROW
BEGIN
IF NEW.customer_phoneno <1000000000 or NEW.customer_phoneno>999999999
THEN
signal sqlstate '45000' set message_text = 'Invalid phone number';
END IF;
END; $$
delimiter;
```

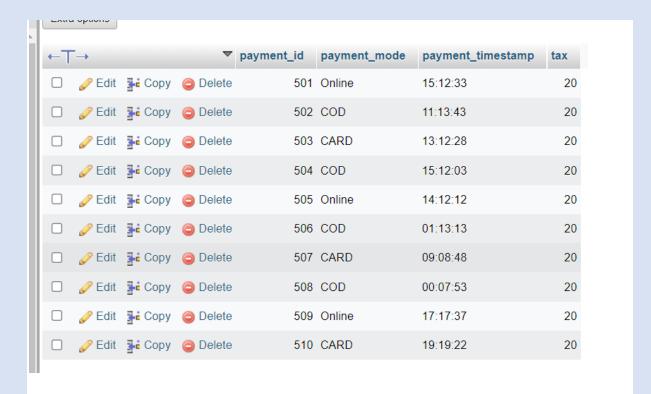
2)Cursor to backup a copy of the table

```
DELIMITER //
CREATE PROCEDURE backup()
   BEGIN
      DECLARE done INT DEFAULT 0;
Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payment_id,O
rder id VARCHAR(30);
      DECLARE cur CURSOR FOR SELECT * FROM payment_details;
      DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
     OPEN cur;
      label: LOOP
      FETCH cur INTO
Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payment_id,O
rder_id ;
      INSERT INTO student_backup
VALUES(Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payme
nt_id,Order_id);
      IF done = 1 THEN LEAVE label;
      END IF;
      END LOOP;
      CLOSE cur;
   END//
DELIMITER;
```

Ехна орнонь						
Order_timestamp	Order_amount	Order_status	customer_id	delivery_id	payment_id	Order_id
07:33:77	2950	Preparing	101	401	501	12344
09:15:00	2200	Ready	102	402	502	12345
11:25:00	200	Preparing	103	403	503	12346
15:55:00	1200	Delayed	104	404	504	12347
13:05:00	2100	Preparing	105	405	505	12348
13:05:00	500	Ready	106	406	506	12349
13:05:00	2555	Preparing	108	408	508	12351
13:05:00	2100	Preparing	109	409	509	12352
12:12:00	1070	Preparing	107	407	507	12359
12:12:00	1070	Preparing	107	407	507	12359
Console						

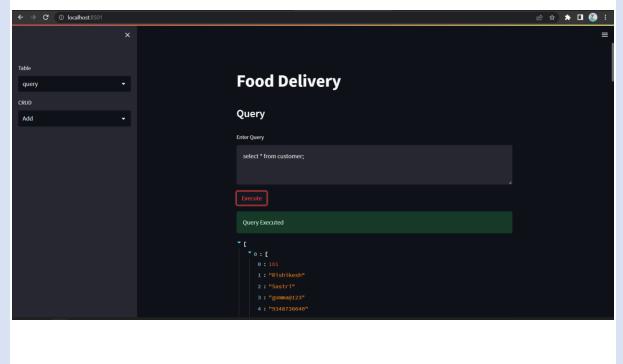
3)cursor to calculate tax

```
DELIMITER //
CREATE PROCEDURE backup()
   BEGIN
      DECLARE done INT DEFAULT 0;
      DECLARE
Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payment_id,O
rder_id VARCHAR(30);
      DECLARE cur CURSOR FOR SELECT * FROM order_details;
      DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
     OPEN cur;
      label: LOOP
      FETCH cur INTO
Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payment_id,O
rder_id ;
      INSERT INTO student_backup
VALUES(Order_timestamp,Order_amount,Order_status,customer_id,delivery_id,payme
nt_id,Order_id);
      IF done = 1 THEN LEAVE label;
      END IF;
      END LOOP;
      CLOSE cur;
   END//
DELIMITER;
```

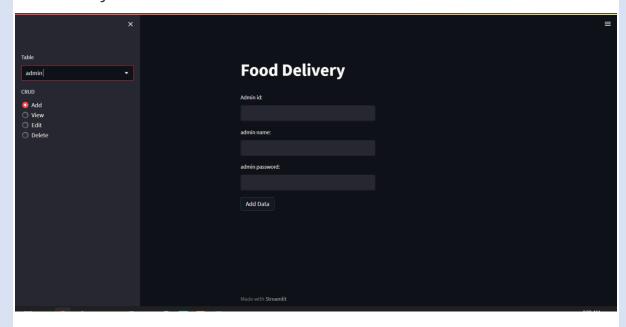


Developing a front end

A window to execute any sql query and see the result



ADD to any table



VIEW any table

