

FOOD ON-CAMPUS MANAGEMENT SYSTEM

REPORT

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TABLES

1. **Shop:** Contains login information for users.

- login_id (Primary Key)
- username
- password
- user_type

2. **Shop_Category:** Contains information about vehicle owners.

- owner_id (Primary Key)
- owner_name
- contact_number
- email
- address

3. **Menu:** Contains information about vehicles.

- vehicle_id (Primary Key)
- owner_id (Foreign Key referencing Owners table)
- make
- model
- year
- registration_number

4. **Menu_Item:** Contains information about vehicle registrations.

- registration_id (Primary Key)
- vehicle_id (Foreign Key referencing Vehicles table)
- registration_date
- expiration_date

5. **Review:** Contains information about employees.

- employee_id (Primary Key)
- employee_name
- designation
- department

SHOP_CATEGORY

```
CREATE TABLE IF NOT EXISTS Shop_Category (  
    category_id INT AUTO_INCREMENT PRIMARY KEY,  
    category_name VARCHAR(255) NOT NULL  
);
```

SHOP

```
CREATE TABLE IF NOT EXISTS Shop (  
    shop_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(255) NOT NULL,  
    location VARCHAR(255) NOT NULL,  
    contact_number VARCHAR(20) NOT NULL,  
    opening_hours TIME NOT NULL,  
    closing_hours TIME NOT NULL,  
    category_id INT,  
    overall_rating FLOAT,  
    FOREIGN KEY (category_id) REFERENCES Shop_Category(category_id)  
);
```

MENU

```
CREATE TABLE IF NOT EXISTS Menu (  
    menu_id INT AUTO_INCREMENT PRIMARY KEY,  
    shop_id INT,  
    FOREIGN KEY (shop_id) REFERENCES Shop(shop_id)  
);
```

MENU_ITEM

```

CREATE TABLE IF NOT EXISTS MenuItem (
    item_id INT AUTO_INCREMENT PRIMARY KEY,
    menu_id INT,
    item_name VARCHAR(255) NOT NULL,
    description TEXT,
    price DECIMAL(10, 2) NOT NULL,
    FOREIGN KEY (menu_id) REFERENCES Menu(menu_id)
);

```

REVIEW

```

CREATE TABLE IF NOT EXISTS Review (
    review_id INT AUTO_INCREMENT PRIMARY KEY,
    hygiene_rating INT NOT NULL,
    price_rating INT NOT NULL,
    overall_rating FLOAT,
    comments TEXT,
    shop_id INT,
    FOREIGN KEY (shop_id) REFERENCES Shop(shop_id)
);

```

```

mysql> use fcms
Database changed
mysql> show tables;
+-----+
| Tables_in_fcms |
+-----+
| menu            |
| menuitem        |
| review          |
| shop            |
| shop_category   |
| shopwithaverage |
+-----+
6 rows in set (0.00 sec)

mysql> select * from shop;
+-----+-----+-----+-----+-----+-----+-----+
| shop_id | name       | location      | contact_number | opening_hours | closing_hours | category_id | overall_rating |
+-----+-----+-----+-----+-----+-----+-----+
| 1       | Tasty Treats | 123 Main Street | 123-456-7890  | 08:00:00      | 20:00:00      | 1           | 4.1            |
| 2       | Coffee Corner | 456 Oak Avenue | 987-654-3210  | 07:00:00      | 19:00:00      | 2           | 4              |
| 3       | Sweet Delights | 789 Elm Road   | 555-123-4567  | 09:00:00      | 18:00:00      | 3           | 4.2            |
| 4       | Sizzling Grill | 321 Pine Lane  | 333-444-5555  | 10:00:00      | 22:00:00      | 1           | 4              |
| 5       | Cozy Cafe     | 555 Cedar Street | 777-888-9999  | 08:30:00      | 17:30:00      | 2           | 4.1            |
| 6       | Fresh Bakery  | 777 Maple Avenue | 111-222-3333  | 07:30:00      | 18:30:00      | 3           | 3.8            |
| 7       | Spice Haven   | 999 Walnut Boulevard | 444-555-6666  | 11:00:00      | 21:00:00      | 1           | 4.2            |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select * from shop_category;
+-----+-----+
| category_id | category_name |
+-----+-----+
| 1           | Restaurant    |
| 2           | Cafe          |
| 3           | Bakery        |
+-----+-----+
3 rows in set (0.00 sec)

```

```
mysql> select * from menu;
```

menu_id	shop_id
1	1
2	2
3	2
4	4
5	4
6	6
7	7

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

```
mysql> select * from menuitem;
```

item_id	menu_id	item_name	description	price
1	1	Steak Dinner	Juicy steak served with mashed potatoes and vegetables	20.99
2	1	Salmon Fillet	Grilled salmon served with rice pilaf and salad	18.99
3	1	Vegetarian Pasta	Penne pasta with assorted vegetables in marinara sauce	15.99
4	2	Espresso	Strong black coffee	3.49
5	2	Cappuccino	Espresso mixed with steamed milk and topped with foam	4.99
6	2	Latte	Espresso mixed with steamed milk	4.49
7	2	Assorted Cupcakes	Variety of cupcakes with different frosting flavors	2.99
8	3	Chocolate Croissant	Flaky pastry filled with chocolate	2.49
9	3	Blueberry Muffin	Moist muffin filled with blueberries	1.99
10	4	BBQ Ribs	Tender BBQ ribs served with coleslaw and fries	16.99
11	4	Grilled Chicken	Marinated grilled chicken breast with roasted vegetables	14.99
12	4	Pulled Pork Sandwich	Slow-cooked pulled pork served on a bun with BBQ sauce	10.99
13	5	Club Sandwich	Triple-decker sandwich with turkey, bacon, lettuce, and tomato	9.99
14	5	Avocado Toast	Toasted bread topped with mashed avocado and cherry tomatoes	7.99
15	5	Caesar Salad	Romaine lettuce, croutons, and Parmesan cheese tossed in Caesar dressing	8.99
16	6	Baguette	Freshly baked French baguette	3.99
17	6	Chocolate Eclair	Light pastry filled with chocolate cream and topped with ganache	4.49
18	6	Apple Pie	Classic apple pie with a flaky crust	5.99
19	7	Chicken Tikka Masala	Tender chicken cooked in a creamy tomato sauce	12.99
20	7	Vegetable Biryani	Fragrant basmati rice cooked with mixed vegetables and spices	10.99
21	7	Garlic Naan	Soft and fluffy bread with garlic flavor	2.49

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

```
mysql> select * from review;
```

review_id	hygiene_rating	price_rating	overall_rating	comments	shop_id
8	5	4	4.5	Excellent food and service!	1
9	4	3	3.5	Good variety but a bit pricey.	1
10	5	5	5	Absolutely amazing experience!	1
11	3	3	3	Average quality, needs improvement.	1
12	4	5	4.5	Great atmosphere and delicious food.	1
13	4	4	4	Fantastic coffee and cozy ambiance.	2
14	5	3	4	Good place to relax and enjoy coffee.	2
15	3	4	3.5	Decent service but coffee could be better.	2
16	5	5	5	Love the variety of coffee options!	2
17	4	3	3.5	Average coffee, nothing special.	2
18	5	5	5	Delicious pastries and friendly staff.	3
19	4	4	4	Freshly baked goods, highly recommend.	3
20	3	4	3.5	Good selection but a bit overpriced.	3
21	5	3	4	Love the desserts, will come back!	3
22	4	5	4.5	Great bakery with tasty treats.	3
23	4	4	4	Awsome BBQ and friendly service.	4
24	5	5	5	Best steakhouse in town, hands down!	4
25	3	3	3	Average food quality, could improve.	4
26	4	3	3.5	Decent menu but portions are small.	4
27	5	4	4.5	Excellent flavors and presentation.	4
28	5	4	4.5	Love the cozy ambiance and tasty sandwiches.	5
29	4	5	4.5	Great place for brunch, friendly staff.	5
30	3	3	3	Average food, nothing special.	5
31	5	4	4.5	Enjoyable dining experience, will return.	5
32	4	4	4	Good variety on the menu, reasonable prices.	5
33	3	4	3.5	Decent selection of bread but service is slow.	6
34	4	3	3.5	Freshly baked bread, could be warmer.	6
35	5	5	5	Love the pastries and friendly atmosphere.	6
36	4	4	4	Delicious cakes and pies!	6
37	3	3	3	Average bakery, needs improvement.	6
38	4	5	4.5	Amazing flavors, love the spicy dishes!	7
39	5	4	4.5	Great service and variety of dishes.	7
40	3	3	3	Average quality, could be better.	7
41	4	4	4	Good portion sizes and reasonable prices.	7
42	5	5	5	Best Indian food in town!	7

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

QUERIES CONSTRAINTS

Query to Add a NOT NULL Constraint to an Existing Column:

ALTER TABLE Shop

MODIFY overall_rating FLOAT NOT NULL;

```
mysql> ALTER TABLE Shop
      -> MODIFY overall_rating FLOAT NOT NULL;
Query OK, 0 rows affected (0.13 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Query to Add a UNIQUE Constraint to an Existing Column:

ALTER TABLE Shop

ADD CONSTRAINT unique_contact_number UNIQUE (contact_number);

```
mysql> ALTER TABLE Shop
      -> ADD CONSTRAINT unique_contact_number UNIQUE (contact_number);
ERROR 1061 (42000): Duplicate key name 'unique_contact_number'
```

Query to Add a FOREIGN KEY Constraint to an Existing Table:

ALTER TABLE Shop

ADD CONSTRAINT fk_category_id FOREIGN KEY (category_id) REFERENCES

Shop_Category(category_id);

```
mysql> ALTER TABLE Shop
      -> ADD CONSTRAINT fk_category_id FOREIGN KEY (category_id) REFERENCES
      -> Shop_Category(category_id);
Query OK, 7 rows affected (0.09 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

Query to Add a NOT NULL Constraint to Multiple Columns:

ALTER TABLE Shop

MODIFY name VARCHAR(255) NOT NULL,

```
MODIFY location VARCHAR(255) NOT NULL,  
MODIFY contact_number VARCHAR(20) NOT NULL;
```

```
mysql> ALTER TABLE Shop
-> MODIFY name VARCHAR(255) NOT NULL,
-> MODIFY location VARCHAR(255) NOT NULL,
-> MODIFY contact_number VARCHAR(20) NOT NULL;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Query to Add a UNIQUE Constraint to a Combination of Columns:

ALTER TABLE Shop

```
ADD CONSTRAINT unique_name_location UNIQUE (name, location);
```

```
mysql> ALTER TABLE Shop
    -> ADD CONSTRAINT unique_name_location UNIQUE (name, location);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

AGGREGATE FUNCTIONS

Count the total number of shops registered:

```
SELECT COUNT(*) AS total_registered_shops
```

FROM Shop;

```
mysql> SELECT COUNT(*) AS total_registered_shops
-> FROM Shop;
```

total_registered_shops
7

```
1 row in set (0.00 sec)
```

Calculate the Average Rating of the Shops:

```
SELECT AVG(overall_rating) AS average_rating_of_shops  
FROM Shop;
```

```
mysql> SELECT AVG(overall_rating) AS average_rating_of_shops  
-> FROM Shop;  
+-----+  
| average_rating_of_shops |  
+-----+  
|          4.036734615053449 |  
+-----+  
1 row in set (0.00 sec)
```

Find the shop which has the maximum number of reviews on it:

```
SELECT shop_id, COUNT(*) AS review_count  
FROM Review  
GROUP BY shop_id  
ORDER BY review_count DESC  
LIMIT 1;
```

```
mysql> SELECT shop_id, COUNT(*) AS review_count  
-> FROM Review  
-> GROUP BY shop_id  
-> ORDER BY review_count DESC  
-> LIMIT 1;  
+-----+-----+  
| shop_id | review_count |  
+-----+-----+  
|        2 |             7 |  
+-----+-----+  
1 row in set (0.00 sec)
```

Determine the number of reviews received by each shop:

```
SELECT shop_id, COUNT(*) AS review_count  
FROM Review
```

GROUP BY shop_id;

```
mysql> SELECT shop_id, COUNT(*) AS review_count
-> FROM Review
-> GROUP BY shop_id;
```

shop_id	review_count
1	5
2	7
3	5
4	5
5	5
6	5
7	5

7 rows in set (0.00 sec)

Calculate the average number of reviews per shop:

SELECT AVG(review_count) AS average_reviews_per_shop

FROM (

SELECT COUNT(*) AS review_count

FROM Review

GROUP BY shop_id

) AS shop_reviews;

```
mysql> SELECT AVG(review_count) AS average_reviews_per_shop
-> FROM (
->     SELECT COUNT(*) AS review_count
->     FROM Review
->     GROUP BY shop_id
-> ) AS shop_reviews;
```

average_reviews_per_shop
5.2857

1 row in set (0.00 sec)

JOINS

Join to Retrieve Shop details with their locations:

```
SELECT s.shop_id, s.name AS shop_name, s.location, s.contact_number, s.opening_hours,
s.closing_hours, s.category_id, s.overall_rating
```

```
FROM Shop s;
```

```
mysql> SELECT s.shop_id, s.name AS shop_name, s.location, s.contact_number, s.opening_hours, s.closing_hours, s.category_id, s.overall_rating
-> FROM Shop s;
```

shop_id	shop_name	location	contact_number	opening_hours	closing_hours	category_id	overall_rating
1	Tasty Treats	123 Main Street	123-456-7890	08:00:00	20:00:00	1	4.1
2	Coffee Corner	456 Oak Avenue	987-654-3210	07:00:00	19:00:00	2	3.85714
3	Sweet Delights	789 Elm Road	555-123-4567	09:00:00	18:00:00	3	4.2
4	Sizzling Grill	321 Pine Lane	333-444-5555	10:00:00	22:00:00	1	4
5	Cozy Cafe	555 Cedar Street	777-888-9999	08:30:00	17:30:00	2	4.1
6	Fresh Bakery	777 Maple Avenue	111-222-3333	07:30:00	18:30:00	3	3.8
7	Spice Haven	999 Walnut Boulevard	444-555-6666	11:00:00	21:00:00	1	4.2

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

Left Join to Include Shops and their menu items:

```
SELECT s.shop_id, s.name AS shop_name, s.location, s.contact_number, s.opening_hours,
s.closing_hours, s.category_id, s.overall_rating,
```

```
m.menu_id, m.item_name, m.description, m.price
```

```
FROM Shop s
```

```
LEFT JOIN Menu m ON s.shop_id = m.shop_id;
```

Self-Join to Find Shops with same overall ratings:

```
SELECT s1.shop_id AS shop_id_1, s1.name AS shop_name_1, s1.overall_rating AS rating_1,
```

```
s2.shop_id AS shop_id_2, s2.name AS shop_name_2, s2.overall_rating AS rating_2
```

```
FROM Shop s1
```

```
JOIN Shop s2 ON s1.overall_rating = s2.overall_rating AND s1.shop_id < s2.shop_id;
```

```
mysql> SELECT s1.shop_id AS shop_id_1, s1.name AS shop_name_1, s1.overall_rating AS rating_1,
-> s2.shop_id AS shop_id_2, s2.name AS shop_name_2, s2.overall_rating AS rating_2
-> FROM Shop s1
-> JOIN Shop s2 ON s1.overall_rating = s2.overall_rating AND s1.shop_id < s2.shop_id;
```

shop_id_1	shop_name_1	rating_1	shop_id_2	shop_name_2	rating_2
1	Tasty Treats	4.1	5	Cozy Cafe	4.1
3	Sweet Delights	4.2	7	Spice Haven	4.2

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

SETS OPERATIONS

Union to Get Combined List of Shops, locations and timings:

```
SELECT name AS info, location AS location_or_timing
```

```
FROM Shop
```

```
UNION
```

```
SELECT CONCAT('Opening Hours: ', opening_hours, ' - ', closing_hours), location
```

```
FROM Shop;
```

```
mysql> SELECT name AS info, location AS location_or_timing
-> FROM Shop
-> UNION
-> SELECT CONCAT('Opening Hours: ', opening_hours, ' - ', closing_hours), location
-> FROM Shop;
```

info	location_or_timing
Coffee Corner	456 Oak Avenue
Cozy Cafe	555 Cedar Street
Fresh Bakery	777 Maple Avenue
Sizzling Grill	321 Pine Lane
Spice Haven	999 Walnut Boulevard
Sweet Delights	789 Elm Road
Tasty Treats	123 Main Street
Opening Hours: 08:00:00 - 20:00:00	123 Main Street
Opening Hours: 07:00:00 - 19:00:00	456 Oak Avenue
Opening Hours: 09:00:00 - 18:00:00	789 Elm Road
Opening Hours: 10:00:00 - 22:00:00	321 Pine Lane
Opening Hours: 08:30:00 - 17:30:00	555 Cedar Street
Opening Hours: 07:30:00 - 18:30:00	777 Maple Avenue
Opening Hours: 11:00:00 - 21:00:00	999 Walnut Boulevard

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

Intersect to Find Shops which are on same location :

```
SELECT location
```

```
FROM Shop
```

```
GROUP BY location
```

```
HAVING COUNT(*) > 1;
```

```
mysql> SELECT location
-> FROM Shop
-> GROUP BY location
-> HAVING COUNT(*) > 1;
Empty set (0.00 sec)
```

VIEWS

view shops with most reviews:

```
SELECT s.name AS shop_name, s.location, COUNT(r.review_id) AS review_count
FROM Shop s
LEFT JOIN Review r ON s.shop_id = r.shop_id
GROUP BY s.shop_id
ORDER BY review_count DESC;
```

```
mysql> select * from shopswithmostreviews;
+-----+-----+-----+
| shop_name | location | review_count |
+-----+-----+-----+
| Coffee Corner | 456 Oak Avenue | 7 |
| Tasty Treats | 123 Main Street | 5 |
| Sweet Delights | 789 Elm Road | 5 |
| Sizzling Grill | 321 Pine Lane | 5 |
| Cozy Cafe | 555 Cedar Street | 5 |
| Fresh Bakery | 777 Maple Avenue | 5 |
| Spice Haven | 999 Walnut Boulevard | 5 |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

View for shops with average rating :

```
CREATE VIEW ShopWithAverageRatings AS
SELECT s.*, AVG(r.overall_rating) AS average_rating
FROM Shop s
LEFT JOIN Review r ON s.shop_id = r.shop_id
GROUP BY s.shop_id;
```

```
mysql> select * from ShopWithAverageRatings;
+-----+-----+-----+-----+-----+-----+-----+-----+
| shop_id | name | location | contact_number | opening_hours | closing_hours | category_id | overall_rating | average_rating |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Tasty Treats | 123 Main Street | 123-456-7890 | 08:00:00 | 20:00:00 | 1 | 4.1 | 4.1 |
| 2 | Coffee Corner | 456 Oak Avenue | 987-654-3210 | 07:00:00 | 19:00:00 | 2 | 3.85714 | 3.857142857142857 |
| 3 | Sweet Delights | 789 Elm Road | 555-123-4567 | 09:00:00 | 18:00:00 | 3 | 4.2 | 4.2 |
| 4 | Sizzling Grill | 321 Pine Lane | 333-444-5555 | 10:00:00 | 22:00:00 | 1 | 4 | 4 |
| 5 | Cozy Cafe | 555 Cedar Street | 777-888-9999 | 08:30:00 | 17:30:00 | 2 | 4.1 | 4.1 |
| 6 | Fresh Bakery | 777 Maple Avenue | 111-222-3333 | 07:30:00 | 18:30:00 | 3 | 3.8 | 3.8 |
| 7 | Spice Haven | 999 Walnut Boulevard | 444-555-6666 | 11:00:00 | 21:00:00 | 1 | 4.2 | 4.2 |
+-----+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

View for top rated shop by category:

```
CREATE VIEW ServiceRequestStats AS
SELECT employee_id, COUNT(*) AS total_requests_handled
```

FROM Service_Requests

GROUP BY employee_id;

```
mysql> select * from topratedshopsbycategory;
```

category_name	shop_name	location	contact_number	overall_rating
Restaurant	Spice Haven	999 Walnut Boulevard	444-555-6666	4.2
Cafe	Cozy Cafe	555 Cedar Street	777-888-9999	4.1
Bakery	Sweet Delights	789 Elm Road	555-123-4567	4.2

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

```
mysql> CREATE VIEW ServiceRequestStats AS
-> SELECT employee_id, COUNT(*) AS total_requests_handled
-> FROM Service_Requests
-> GROUP BY employee_id;
Query OK, 0 rows affected (0.03 sec)
```

```
mysql>
mysql> SELECT * from servicerequeststats;
```

employee_id	total_requests_handled
1	1
2	1
3	1
4	1
5	1
6	1
7	1

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

```
mysql> |
```

TRIGGERS

Trigger to Update Reviews of a Shop:

-- Trigger to update overall_rating in Review table when a new review is added or an existing one is updated

DELIMITER \$\$

CREATE TRIGGER update_overall_rating

AFTER INSERT ON Review

FOR EACH ROW

BEGIN

DECLARE total_reviews INT;

```

DECLARE total_ratings FLOAT;

-- Calculate total reviews and ratings for the shop
SELECT COUNT(*), SUM(hygiene_rating + price_rating) INTO total_reviews, total_ratings
FROM Review
WHERE shop_id = NEW.shop_id;

-- Update overall_rating in Shop table
UPDATE Shop
SET overall_rating = total_ratings / (total_reviews * 2)
WHERE shop_id = NEW.shop_id;
END$$
DELIMITER ;

```

Trigger to Delete a Review of a Shop:

```

-- Trigger to update overall_rating in Shop table when a review is deleted
DELIMITER $$
CREATE TRIGGER update_overall_rating_on_delete
AFTER DELETE ON Review
FOR EACH ROW
BEGIN
    DECLARE total_reviews INT;
    DECLARE total_ratings FLOAT;

    -- Calculate total reviews and ratings for the shop
    SELECT COUNT(*), SUM(hygiene_rating + price_rating) INTO total_reviews, total_ratings
    FROM Review
    WHERE shop_id = OLD.shop_id;

```

```
-- Update overall_rating in Shop table

UPDATE Shop

SET overall_rating = total_ratings / (total_reviews * 2)

WHERE shop_id = OLD.shop_id;

END$$

DELIMITER ;
```

CURSORS

Cursor to Iterate Over the Reviews:

```
-- Stored Procedure to iterate over reviews for a specific shop

DELIMITER $$

CREATE PROCEDURE IterateReviewsForShop(IN shopID INT)

BEGIN

    DECLARE done_reviews BOOLEAN DEFAULT FALSE;

    DECLARE review_id INT;

    DECLARE hygiene_rating INT;

    DECLARE price_rating INT;

    DECLARE overall_rating FLOAT;

    DECLARE comments TEXT;

    -- Declare cursor for iterating over reviews

    DECLARE cur_reviews CURSOR FOR

        SELECT review_id, hygiene_rating, price_rating, overall_rating, comments

        FROM Review

        WHERE shop_id = shopID;

    -- Declare continue handler to exit loop

    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done_reviews = TRUE;
```

```

-- Open cursor
OPEN cur_reviews;

-- Start iterating over reviews
read_reviews_loop: LOOP
    -- Fetch review data into variables
    FETCH cur_reviews INTO review_id, hygiene_rating, price_rating, overall_rating,
comments;

    -- Exit loop if no more rows
    IF done_reviews THEN
        LEAVE read_reviews_loop;
    END IF;

    -- Print out information about the review
    SELECT CONCAT('Review ID: ', review_id, ', Hygiene Rating: ', hygiene_rating, ', Price
Rating: ', price_rating, ', Overall Rating: ', overall_rating, ', Comments: ', comments) AS
Review_Info;

    END LOOP;

-- Close cursor
CLOSE cur_reviews;

END$$
DELIMITER ;

```