HOMEWORK - 4

MIS686 - Enterprise Database Management

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QUERIES

1) Show each combination of brand name and site name alongside the average star rating and total number reviews of all reviews corresponding to that combination. Sort your results by total number of reviews from high to low.

```
SELECT B.Brand_Name, S.Site_Name, AVG(R.Star_Rating) AS Avg_Star_Rating, COUNT(R.Review_ID)
AS No_of_Reviews
FROM Brands B
JOIN Products P
ON B.Brand_ID = P.Brand_ID
JOIN Reviews R
ON R.Product_ID = P.Product_ID
JOIN Sites S
ON S.Site_ID = R.Site_ID
GROUP BY S.Site_Name, B.Brand_Name
ORDER BY No_of_Reviews DESC;
```

2) Show all reviews posted in the year 2015 that refer to the word “return” (any capitalization). Alongside each review’s text, also show the star rating and the product name.

```
SELECT R.Review_Text, R.Star_Rating, P.Product_Name
FROM Reviews R
JOIN Products P
ON R.Product_ID = P.Product_ID
WHERE R.Date_Of_Post BETWEEN "2015-01-01" AND "2015-12-31" AND R.Review_Text LIKE
"%return%";
```

3) Show each combination of brand name and category name. For each combination, show the total number of products that the brand name sells in that category. Only show results for combinations where are least two products are sold.

```
SELECT B.Brand_Name, C.Category_Name, COUNT(P.Product_ID) AS No_of_Products
FROM Brands B
JOIN Products P
ON B.Brand_ID = P.Brand_ID
JOIN Categories C
ON C.Category_ID = P.Category_ID
GROUP BY B.Brand_Name, C.Category_Name
HAVING No_of_Products >= 2;
```

4) Create a stored procedure called Review_Search. In your stored Procedure, take two parameter values: one for a brand name and one for a search term. When your stored procedure is run, output the total number of reviews pertaining to that brand name that contain the search term (any capitalization).

```
CREATE PROCEDURE IF NOT EXISTS Review_Search
(IN Brand_Name VARCHAR(50), IN Search VARCHAR(50))

SELECT B.Brand_Name, COUNT(R.Review_ID) AS No_of_Reviews
FROM Reviews R
JOIN Products P
ON R.Product_ID = P.Product_ID
JOIN Brands B
ON B.Brand_ID = P.Brand_ID
WHERE B.Brand_Name LIKE Brand_Name AND R.Review_Text LIKE Search
GROUP BY B.Brand_Name

CALL Review_Search("%black%", “%balck%”);
```

5) Show the name of each product alongside the total number of reviews for that product and the average star rating among those reviews. At the end of your output, also show a row for “All products” with the average star rating across all products and the total number of reviews across all products.

```
SELECT P.Product_Name, COUNT(R.Review_ID) AS Total_Reviews, AVG(R.Star_Rating) AS
Avg_Star_Rating
FROM Reviews R
JOIN Products P
ON R.Product_ID = P.Product_ID
GROUP BY P.Product_Name

UNION

SELECT "All_Products", COUNT(Review_ID) AS Total_Reviews, AVG(Star_Rating) AS Avg_Star_Rating
FROM Reviews;
```

7) Show all reviews that mention any of the words “dangerous”, “hazard”, or “safety” (any capitalization). Alongside each review, show the review date and star rating. Also show the support email and support phone number that the customer should use to report the problem. Sort your results by the recency of the review from newest to oldest.

```
SELECT R.Review_Text,R.Date_Of_Post, R.Star_Rating, B.Support_Email, B.Support_Phone
FROM Reviews R
JOIN Products P
ON P.Product_ID = R.Product_ID
JOIN Brands B
ON B.Brand_ID = P.Brand_ID
WHERE R.Review_Text LIKE "%dangerous%" OR R.Review_Text LIKE "%hazard%" OR R.Review_Text
LIKE "%safety%"
ORDER BY R.Date_Of_Post DESC;
```

HTML Code:

1. Home Page

```
<html>
	<head>
		<meta charset="utf-8">
		<title>My HTML</title>
		<link rel = "stylesheet" href =
"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"></link>
	</head>
	<body>
		<h1>UMADEVI</h1>
		<p>My name is <i>Umadevi</i> and my hometown is Belgaum</p>
		<p> My favorite animal is <b>Cow</b> and my favorite colour is <b>White</b></p>
		<p>Here is the link for <a href = "data.html" target = "_BLANK">data page</a></p>
	</body>
</html>
```

2. Secondary Page

```
<html>
	<head>
		<meta charset="utf-8">
		<title>Brands Data</title>
		<link rel = "stylesheet" href =
"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"></link>
	</head>
	<body>
		<h2>Brands Table</h2>
		<table>
			<tr>

	<th>Brand_ID</th><th>Brand_Name</th><th>Support_Email</th><th>Support_Phone</th>
			</tr>
			<tr>

	<td>1</td><td>Keurig</td><td>help@keurig.com</td><td>8669012739</td>
			</tr>
			<tr>
					<td>2</td><td>Black &
Decker</td><td>support@blackanddecker.com</td><td>8004656070</td>
			</tr>
			<tr>

	<td>3</td><td>Cuisinart</td><td>customerservice@cuisinart.com</td><td>8007260190</td>
			</tr>
			<tr>
					<td>4</td><td>Hamilton
Beach</td><td>csupport@hamiltonbeach.com</td><td>8774741122</td>
			</tr>
	</body>
 </html>
```