

## CookEasy : *Business Insights*

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1. What are the most reviewed recipes?

```
SELECT Recipes.RecipeName as Recipe, COUNT(*) as Review_Count
FROM Recipes INNER JOIN Reviews
    ON Recipes.RecipeId = Reviews.RecipeId
GROUP BY Recipe
ORDER BY Review_Count DESC, Recipe ASC
LIMIT 10;
```

	Recipe	Review_Count
►	Classic Crumb Buns	10
	Zucchini Fettuccine	6
	Cocktail Nuts	5
	Shabnam Curry	5
	Brownie Mallow Bars	4
	Grandpa's Pumpkin Bread	3
	Sweet and Sour Meatballs	3
	Easy Walnut Creams	2
	Mock Mincemeat Pie	2

2. What are the most recommended recipes?

```
SELECT Recipes.RecipeName as Recipe, COUNT(*) AS Recommendation_Count
FROM Recipes INNER JOIN Recommendation
      ON Recipes.RecipeId = Recommendation.RecipeId
GROUP BY Recipe
ORDER BY Recommendation_Count DESC, Recipe ASC
LIMIT 10;
```

Recipe	Recommendation_Count
▶ Next Day Turkey Casserole	16
Raspberry Crumble	16
Banana Pudding Cake	11
Goat cheese focaccia	10
Allegra's Chessy Pie	9
Lemon-Frosted Spicy Fig Bars	7
Peachy Oatmeal Muffins	5
Peanut Butter Jelly Swirl Bundt Cake	5
Balsamic-Beer Flank Steak	4
mincemeat streusel bread pudding	3

3. Which recipes are most often saved by users?

```
SELECT Recipes.RecipeName as Recipe, COUNT(*) as Saved_Recipe_Count
FROM Recipes INNER JOIN SavedRecipes
      ON Recipes.RecipeId = SavedRecipes.RecipeId
GROUP BY Recipe
ORDER BY Saved_Recipe_Count DESC, Recipe ASC
LIMIT 10;
```

Recipe	Saved_Recipe_Count
▶ Spinach Artichoke Dip II	12
Crunchy Pecan Bars	10
Hot Fruit Casserole	10
Apricot Pound Cake	9
Classic Sour Cream Raisin Pie	8
Colorado Beef Stroganoff	8
Goat cheese focaccia	7
Minnesota Minestrone	7
Velvet Molded Salad	7
Oreo Cookies	5

4. What are the most highly rated recipes?

```
SELECT Recipes.RecipeName as Recipe, COUNT(*) as Highly_Rated_Count
FROM Recipes INNER JOIN Ratings
    ON Recipes.RecipeId = Ratings.RecipeId
WHERE Ratings.Difficulty < 4.0
    OR Ratings.Cost < 6.0
    OR Ratings.Taste > 7.0
    OR Ratings.Time < 4.0
GROUP BY Recipe
ORDER BY Highly_Rated_Count DESC, Recipe ASC
LIMIT 10;
```

Recipe	Highly_Rated_Count
► Hot Fruit Casserole	7
Linzertorte	7
Apricot Pound Cake	6
Banana Pudding Cake	4
mincemeat streusel bread pudding	4
Chocolate Triumph of Gluttony Cake	3
Allegra's Chessy Pie	2
Colorado Beef Stroganoff	2
Daisy Mae's Fried Apples	2
Beer Dip	1

5. Who are the most active users?

```
SELECT Users.UserName as UserName, COUNT(Reviews.UserName) as 'Count'  
      FROM Users LEFT OUTER JOIN Reviews  
      ON Users.UserName = Reviews.UserName  
      GROUP BY Username  
      ORDER BY COUNT(Reviews.UserName) DESC, UserName ASC  
      LIMIT 10;
```

	UserName	Count
►	User_4	5
	User_2	4
	User_3	4
	User_19	3
	User_21	3
	User_20	2
	User_22	2
	User_23	2
	User_25	2
	User_26	2

6. Which users write the most detailed reviews?

```
SELECT UserName as UserName, (SUM(LENGTH(Content)) / COUNT(*)) as  
'Avg_Length_of_Review'  
FROM Reviews  
GROUP BY UserName  
ORDER BY (SUM(LENGTH(Content)) / COUNT(*)) DESC, UserName ASC  
LIMIT 10;
```

UserName	Avg_Length_of_Review
▶ User_4	579.0000
User_5	508.0000
User_19	456.0000
User_27	421.0000
User_16	398.0000
User_1	346.0000
User_23	64.0000
User_2	25.0000
User_28	15.0000
User_3	11.0000

7. What keywords are the most popular in recipes?

```
select KeywordInRecipe.KeywordName, count(*) as 'Count'
from KeywordInRecipe left outer join Recipes
on KeywordInRecipe.RecipeID = Recipes.RecipeID
group by KeywordInRecipe.KeywordName
order by count(*) desc
limit 10;
```

	KeywordName	Count
►	Easy	100424
	< 60 Mins	58702
	< 4 Hours	45875
	Meat	42953
	< 30 Mins	42772
	Oven	39882
	Vegetable	35465
	Healthy	34312
	< 15 Mins	34044
	Fruit	32036

8. Which keywords are associated with the most recommended recipes?

```
select KeywordInRecipe.KeywordName, count(*) as 'Count'
from (select Recipes.RecipeID
      from Recipes inner join Recommendation
      on Recipes.RecipeID = Recommendation.RecipeID
      group by Recipes.RecipeID
      order by count(*)
      limit 10) as PopularRecipes
inner join KeywordInRecipe
on PopularRecipes.RecipeID = KeywordInRecipe.RecipeID
group by KeywordInRecipe.KeywordName
order by count(*) desc;
```

KeywordName	Count
Oven	5
< 4 Hours	5
Weeknight	4
► Fruit	3
< 60 Mins	3
Easy	3
Christmas	2
Meat	2
Kid Friendly	2
Potluck	2
< 30 Mins	2
Inexpensive	1
Lebanese	1
Turkish	1
Low Choleste...	1
Caribbean	1
Greek	1
Southwest As...	1

9. What are the most popular 'easy' recipes?

```
SELECT Recipes.RecipeName as Recipe, COUNT(*) as 'Easy_Recipe_Count'
FROM Recipes INNER JOIN Ratings
      ON Recipes.RecipeId = Ratings.RecipeId
WHERE Difficulty < 4.0
GROUP BY Recipe
ORDER BY 'Easy_Recipe_Count' DESC, Recipe ASC
LIMIT 10;
```

Recipe	Easy_Recipe_Count
▶ Banana Pudding Cake	3
Apricot Pound Cake	2
Hot Fruit Casserole	2
mincemeat streusel bread pudding	2
Beer Dip	1
Chicken Gumbo	1
Colorado Beef Stroganoff	1
Daisy Mae's Fried Apples	1
Goat cheese focaccia	1
Linzertorte	1

10. Report on a particular User's saved recipes to include all the details about the recipes

```
SELECT Recipes.RecipeName, Recipes.Description, Recipes.Preptime, Recipes.CookTime,
Recipes.RecipeInstructions, SavedRecipes.RecommendedbyCookEasy
FROM SavedRecipes INNER JOIN Recipes
      ON SavedRecipes.RecipeID = Recipes.RecipeID
WHERE SavedRecipes.UserName = 'User'; #UserInput
```

RecipeName	Description	Preptime	CookTime	RecipeInstructions	RecommendedbyCookEasy
Chocolate Triumph of Gluttony Cake	Recipe Courtesy of Nick Malgeri, Director Bakin...	PT2H10M	PT53M	c("In a medium mixing bowl, whisk the yolks wit...	1



11. Which recipes have the best average rating across all categories (taste, time, cost, and difficulty)?

```
SELECT RecipeName, ((Average_Difficulty * 0.25) + (Average_Cost * 0.25) + (Average_Taste * 0.25) + (Average_Time * 0.25)) AS Overall_Rating
FROM (
SELECT Recipes.RecipeName, AVG(Ratings.Difficulty) AS Average_Difficulty,
AVG(Ratings.Cost) AS Average_Cost, AVG(Ratings.Taste) AS Average_Taste,
AVG(Ratings.Time) AS Average_Time
FROM Ratings INNER JOIN Recipes
ON Ratings.RecipeID = Recipes.RecipeID
GROUP BY Recipes.RecipeName
) AS T
ORDER BY Overall_Rating DESC
LIMIT 10;
```

RecipeName	Overall_Rating
► Braised Duck with Onion	8.5000000
Chocolate Triumph of Gluttony Cake	7.2500000
Daisy Mae's Fried Apples	6.7499975
Allegra's Chessy Pie	6.2500000
Apricot Pound Cake	5.5416675
Crunchy Pecan Bars	5.5000000
Linzertorte	5.3928575
Hot Fruit Casserole	5.3333350
Banana Pudding Cake	5.1000000
Colorado Beef Stroganoff	5.0000000