

CPSC 304 Project Cover Page

Milestone #: 4

Date: 20 June 2023

Group Number: 25

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

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a) Project Summary:

Our project allows users to keep track of their inventory of ingredients by adding and removing from it. They can also search for recipes that fit their search criteria, such as whether they have all ingredients, or high calorie recipes. Users can choose what information they want to see from the recipes, such as difficulty and nutritional value. Users can also search for eateries based on the type of restaurant and cuisine. Additionally, if the user is an admin, they will have the ability to see the inventory count for all users, update information about the eatery branches, delete an eatery (which also deletes all related branches) and perform search queries on any table of their choice.

b) Final schema differences

We deleted the ‘price’ column from ‘equipment’ since we thought it was out of place. We also made some slight naming changes on some columns for grammar and consistency (For example, changing ‘requires’ to ‘require’). We also removed the participation constraint between recipe and equipment, and between recipe and ingredient, since we did not end up using this constraint in our implementation.

Other than that, our schema has not been changed from milestone 2.

c) Schema

Underline = Primary Key (It is implied that all underlined attributes are NOT NULL)

Bold = Foreign key

- User(Name: char[50], ID: Integer)
- Makes(ID: char[50], RecName: char[50])
- RecipesContain(Difficulty: char[50], Name: char[50], NutID: Integer)
 - NOT NULL: NutID
- GoTo(ID: Integer, Name: char[50])
- Eatery(Name: char[50], Culture: char[50], FoodType: char[50])
- BranchHas(DriveThrough: Integer, Street: char[50], PostalCode: char[50], UnitNumber: Integer, Self-service: Integer, EatName: char[50], Province: char[2], City: char[50])
- Uses(EquipName: char[50], RecName: char[50])
- Equipment(Name: char[50], Material: char[50])
- Own(ID: char[50], EquipName: char[50])
- Possess(ID: char[50], IngName: char[50])
- Ingredient(Name: char[50], Origin : char[50]):
 - Meat(Animal: char[50], Cut: char[50], Free-range: Integer, Name : char[50])
 - Vegetable(Organic : char[50], Name : char[50])
 - Others(Gluten-free: Integer, Name : char[50])
- Cook(RecName : char[50], IngName : char[50], Unit: char[50], Quantity: Integer)
- Requires(RecName: char[50], PreserveMethod: char[50])
- Preservation(Time: char[50], Method: char[50])
- Nutritional value (ID: Integer, Calories: Integer, Protein: Integer, Fat: Integer)

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1

SCHEMAS mydb

Tables: branchhas1, branchhas2, cook, eatery, equipment, goto, ingredient, makes, meat, nutritionvalue, others, own, possess, preservation, recipescontain, requires, user, uses, vegetable

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

1 • SELECT * FROM mydb.branchhas1;

DriveThrough	Street	PostalCode	UnitNumber	SelfService	EatName
0	Calgary St	VSL 3X2	2068	0	French Table
0	Catherines St	VSP 3W2	1128	1	Starbucks
0	Commercial Drive	VSL 3X2	1128	0	Sula Indian Restaurant
1	Fraser St	VSP 4E7	4064	1	Tim Hortons
1	Victoria Dr	VSP 3W2	5661	1	McDonalds
NULL	NULL	NULL	NULL	NULL	NULL

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: branchhas1

Columns: DriveThrough int, Street char(5), PostalCode PK, UnitNumber int PK, SelfService int, EatName char(5) PK

Action Output

Time	Action	Message	Duration / Fetch
61 21:19:39	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec
62 21:19:58	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63 21:19:58	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
64 21:20:05	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
65 21:20:11	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66 21:21:03	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2

SCHEMAS mydb

Tables: branchhas1, branchhas2, cook, eatery, equipment, goto, ingredient, makes, meat, nutritionvalue, others, own, possess, preservation, recipescontain, requires, user, uses, vegetable

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

1 • SELECT * FROM mydb.branchhas2;

PostalCode	Province	City
M5V 3M2	ON	Toronto
VSL 3X2	BC	Vancouver
VSP 3W2	BC	Vancouver
VSR 3L9	BC	Vancouver
V5V 4E7	BC	Vancouver
NULL	NULL	NULL

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: branchhas1

Columns: DriveThrough int, Street char(5), PostalCode PK, UnitNumber int PK, SelfService int, EatName char(5) PK

Action Output

Time	Action	Message	Duration / Fetch
62 21:19:58	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
63 21:19:58	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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65 21:20:11	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66 21:21:03	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67 21:21:05	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

1 • SELECT * FROM mydb.cook;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

RecName	IngName	Unit	Quantity
Grilled Tomahawk Steak	Beef Loin	Gram	200
Maple Cupcakes	Canola Oil	TableSpoon	3
Scotch Eggs	Canola Oil	TableSpoon	2
Scrambled Eggs	Canola Oil	TableSpoon	1
Zucchini Smoothie	Zucchini	Gram	100
	NULL	NULL	NULL

SQLAdditions | Jump to

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Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName char(5) PK

Action Output

Time	Action	Message	Duration / Fetch
63 21:19:58	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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66 21:21:03	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67 21:21:09	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68 21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor Field Types

Apply Revert Context Help Snippets

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

1 • SELECT * FROM mydb.eatery;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

Name	Culture	FoodType
French Table	French	Traditional Restaurant
McDonalds	Western	Fast food
Starbucks	Western	Coffee
Sula Indian Restaurant	Indian	Traditional Restaurant
Tim Hortons	Western	Fast food
	NULL	NULL

SQLAdditions | Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName char(5) PK

Action Output

Time	Action	Message	Duration / Fetch
64 21:20:05	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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67 21:21:09	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68 21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
69 21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor Field Types

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MySQL Workbench Local instance MySQL80

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Navigator: branchhas1 branchhas2 cook eatery

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

1 • SELECT * FROM mydb.eatery;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

Name	Culture	FoodType
French Table	French	Traditional Restaurant
McDonalds	Western	Fast food
Starbucks	Western	Coffee
Sula Indian Restaurant	Indian	Traditional Restaurant
Tim Hortons	Western	Fast food
	NULL	NULL

SQLAdditions | Jump to

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Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName char(5) PK

Action Output

Time	Action	Message	Duration / Fetch
64 21:20:05	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
65 21:20:11	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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68 21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
69 21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor Field Types

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Navigator: branchhas1 branchhas2 cook eatery equipment

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

1 • SELECT * FROM mydb.equipment;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

Name	Material
Cutting board	Wood
Mixers	Stainless steel
Oven	Stainless steel
Refrigerator	Stainless steel
Spatula	Stainless steel
NULL	NULL

Table: branchhas1

Columns: DriveThrough int, Street PK, PostalCode char(5), UnitNumber int PK, SelfService int, EatName char(5) PK

Action Output

#	Time	Action	Message	Duration / Fetch
65	21:21:03	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66	21:21:03	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	21:21:05	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
69	21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
70	21:21:21	SELECT * FROM mydb.equipment LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

1 • SELECT * FROM mydb.goto;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

ID	Name
4	French Table
5	McDonald's
2	Starbucks
1	Sala Indian Restaurant
3	Tim Hortons
NULL	NULL

Table: branchhas1

Columns: DriveThrough int, Street PK, PostalCode char(5), UnitNumber int PK, SelfService int, EatName char(5) PK

Action Output

#	Time	Action	Message	Duration / Fetch
66	21:21:03	SELECT * FROM mydb.branchhas1 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	21:21:05	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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69	21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
70	21:21:21	SELECT * FROM mydb.equipment LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
71	21:21:25	SELECT * FROM mydb.goto LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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MySQL Workbench Local instance MySQL80

Schemas: mydb

Tables: branchhas1, branchhas2, cook, eatery, equipment, goto, ingredient

Result Grid:

Name	Origin
BeefLoin	AB
BeefRib	AB
Canola Oil	AB
Carrots	AB
Chicken Breast	ON
Chicken Wing	ON
Corn	AB
Fish Tail	NS
Onions	AB
Peas	AB
Potatoes	BC
Rice	NS

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName char(5) PK

Action Output:

#	Time	Action	Message	Duration / Fetch
67	21:21:09	SELECT * FROM mydb.branchhas2 LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
69	21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
70	21:21:21	SELECT * FROM mydb.equipment LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
71	21:21:25	SELECT * FROM mydb.goto LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
72	21:21:28	SELECT * FROM mydb.ingredient LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench Local instance MySQL80

Schemas: mydb

Tables: branchhas1, branchhas2, cook, eatery, equipment, goto, ingredient, makes

Result Grid:

ID	RedName
4	Grilled Tomahawk Steak
5	Maple Cupcakes
1	Zucchini Smoothie
2	Zucchini Smoothie
3	Zucchini Smoothie

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName char(5) PK

Action Output:

#	Time	Action	Message	Duration / Fetch
68	21:21:13	SELECT * FROM mydb.cook LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
69	21:21:17	SELECT * FROM mydb.eatery LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
70	21:21:21	SELECT * FROM mydb.equipment LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
71	21:21:25	SELECT * FROM mydb.goto LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
72	21:21:28	SELECT * FROM mydb.ingredient LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
73	21:21:32	SELECT * FROM mydb.makes LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat

SCHEMAS mydb

Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

Limit to 1000 rows

1 • SELECT * FROM mydb.meat;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

Animal	Cut	FreeRange	Name
Cow	Loin	1	Beef Loin
Cow	Rib	1	Beef Rib
Chicken	Breast	0	Chicken Breast
Chicken	Wing	1	Chicken Wing
Fish	Tail	0	Fish Tail
NULL	NULL	NULL	NULL

SQLAdditions | Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information:

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName PK

Action Output | Output | Context Help | Snippets

Object Info Session

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue

SCHEMAS mydb

Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescantan requires user uses vegetable

Limit to 1000 rows

1 • SELECT * FROM mydb.nutritionvalue;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

ID	Calories	Protein	Fat
1	70	2	1
2	300	30	20
3	350	4	20
4	140	12	10
5	240	12	15
NULL	NULL	NULL	NULL

SQLAdditions | Jump to

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Administration Schemas

Information:

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5)
- PostalCode PK
- UnitNumber int PK
- SelfService
- EatName PK

Action Output | Output | Context Help | Snippets

Object Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others

SCHEMAS mydb

Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.others;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

GlutenFree	Name
1	Canola oil
1	Rice
1	Salt
1	Tomatoes
1	Zucchini
NULL	NULL

Table: branchhas1

Columns: DriveThrough int Street PK PostalCode char(5) UnitNumber int PK SelfService char(5) EatName PK

Action Output

Time	Action	Message	Duration / Fetch
71	21:21:25	SELECT * FROM mydb.goto LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
72	21:21:28	SELECT * FROM mydb.ingredient LIMIT 0, 1000	15 row(s) returned 0.000 sec / 0.000 sec
73	21:21:32	SELECT * FROM mydb.makes LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
74	21:21:37	SELECT * FROM mydb.meat LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
75	21:21:39	SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
76	21:21:46	SELECT * FROM mydb.others LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own

SCHEMAS mydb

Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.own;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

ID	Equipment
4	Cutting board
1	Mixers
2	Mixers
3	Mixers
5	Oven
NULL	NULL

Table: branchhas1

Columns: DriveThrough int Street PK PostalCode char(5) UnitNumber int PK SelfService char(5) EatName PK

Action Output

Time	Action	Message	Duration / Fetch
72	21:21:28	SELECT * FROM mydb.ingredient LIMIT 0, 1000	15 row(s) returned 0.000 sec / 0.000 sec
73	21:21:32	SELECT * FROM mydb.makes LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
74	21:21:37	SELECT * FROM mydb.meat LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
75	21:21:39	SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
76	21:21:46	SELECT * FROM mydb.others LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
77	21:21:49	SELECT * FROM mydb.own LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own

SCHEMAS mydb

Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.own;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

ID	Equipment
4	Cutting board
1	Mixers
2	Mixers
3	Mixers
5	Oven
NULL	NULL

Table: branchhas1

Columns: DriveThrough int Street PK PostalCode char(5) UnitNumber int PK SelfService char(5) EatName PK

Action Output

Time	Action	Message	Duration / Fetch
72	21:21:28	SELECT * FROM mydb.ingredient LIMIT 0, 1000	15 row(s) returned 0.000 sec / 0.000 sec
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75	21:21:39	SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
76	21:21:46	SELECT * FROM mydb.others LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec
77	21:21:49	SELECT * FROM mydb.own LIMIT 0, 1000	5 row(s) returned 0.000 sec / 0.000 sec

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess SQLAdditions

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.possess

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

ID	IngName
4	BeefLoin
5	Canola Oil
1	Zucchini
2	Zucchini
3	Zucchini
NULL	NULL

Table: branchhas1

Columns: DriveThrough int, Street char(5), PostalCode PK, UnitNumber int PK, SelfService, EatName PK

Action Output:

- Time Action
 - 73 21:21:32 SELECT * FROM mydb.makes LIMIT 0, 1000
 - 74 21:21:37 SELECT * FROM mydb.meat LIMIT 0, 1000
 - 75 21:21:39 SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000
 - 76 21:21:46 SELECT * FROM mydb.others LIMIT 0, 1000
 - 77 21:21:49 SELECT * FROM mydb.own LIMIT 0, 1000
 - 78 21:21:53 SELECT * FROM mydb.possess LIMIT 0, 1000

Object Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation SQLAdditions

SCHEMAS mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.preservation

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

Methods	Time
Blanching	3m
Cool storage	1d
Fermentation	2d
Pasteurization	15s
Sterilization	15m

Table: branchhas1

Columns: DriveThrough int, Street char(5), PostalCode PK, UnitNumber int PK, SelfService, EatName PK

Action Output:

- Time Action Message Duration / Fetch
 - 74 21:21:37 SELECT * FROM mydb.meat LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 75 21:21:39 SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 76 21:21:46 SELECT * FROM mydb.others LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 77 21:21:49 SELECT * FROM mydb.own LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 78 21:21:53 SELECT * FROM mydb.possess LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench Local instance MySQL80

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 - 76 21:21:46 SELECT * FROM mydb.others LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 77 21:21:49 SELECT * FROM mydb.own LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
 - 78 21:21:56 SELECT * FROM mydb.preservation LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec

Object Info Session

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas mydb Tables branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses uses vegetable

1 • SELECT * FROM mydb.recipescontain;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

Difficulty	Name	NutID
Hard	Grilled Tomahawk Steak	2
Medium	Maple Cupcakes	3
Easy	Scotch Eggs	5
Easy	Scrambled Eggs	4
Easy	Zucchini Smoothie	1
NULL	NULL	NULL

Table: branchhas1

Columns: DriveThrough int, Street PK, PostalCode char(5), UnitNumber int PK, SelfService char(5), EatName PK

Action Output

Time	Action	Message	Duration / Fetch
75 21:21:39	SELECT * FROM mydb.nutritionvalue LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
76 21:21:46	SELECT * FROM mydb.others LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
77 21:21:49	SELECT * FROM mydb.own LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
78 21:21:53	SELECT * FROM mydb.possess LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
79 21:21:56	SELECT * FROM mydb.preservation LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
80 21:22:01	SELECT * FROM mydb.recipescontain LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas mydb Tables branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses uses vegetable

1 • SELECT * FROM mydb.requires;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

ReclName	PreserveMethod
Grilled Tomahawk Steak	Cool storage
Maple Cupcakes	Cool storage
Scotch Eggs	Cool storage
Scrambled Eggs	Cool storage
Zucchini Smoothie	Cool storage
NULL	NULL

Table: branchhas1

Columns: DriveThrough int, Street PK, PostalCode char(5), UnitNumber int PK, SelfService char(5), EatName PK

Action Output

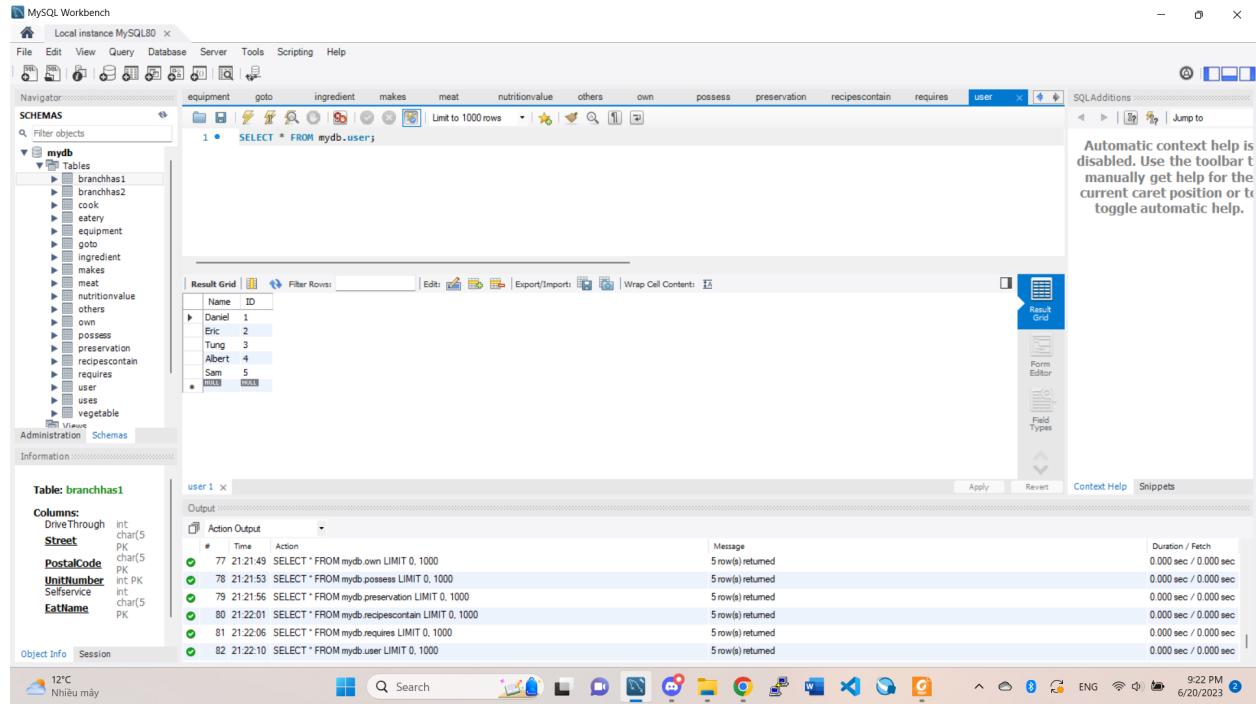
Time	Action	Message	Duration / Fetch
76 21:21:46	SELECT * FROM mydb.others LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
77 21:21:49	SELECT * FROM mydb.own LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
78 21:21:53	SELECT * FROM mydb.possess LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
79 21:21:56	SELECT * FROM mydb.preservation LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
80 21:22:01	SELECT * FROM mydb.recipescontain LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
81 21:22:06	SELECT * FROM mydb.requires LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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File Edit View Query Database Server Tools Scripting Help

Navigator: goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses SQLAdditions

SCHEMAS: mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.usess;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

EquipName RedName

Cutting board Grilled Tomahawk Steak
Oven Maple Cupcakes
Spatula Scotch Eggs
Spatula Scrambled Eggs
Mixers Zucchini Smoothie
NULL NULL

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5) PK
- PostalCode char(5) PK
- UnitNumber int PK
- SelfService char(5) PK
- EatName char(5) PK

Action Output

#	Time	Action	Message	Duration / Fetch
78	21:21:53	SELECT * FROM mydb.possess LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
79	21:21:56	SELECT * FROM mydb.preservation LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
80	21:22:01	SELECT * FROM mydb.recipescontain LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
81	21:22:06	SELECT * FROM mydb.requires LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
82	21:22:10	SELECT * FROM mydb.user LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
83	21:22:15	SELECT * FROM mydb.usess LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session 12°C Nhiều máy 9:22 PM 6/20/2023

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable SQLAdditions

SCHEMAS: mydb Tables: branchhas1 branchhas2 cook eatery equipment goto ingredient makes meat nutritionvalue others own possess preservation recipescontain requires user uses vegetable

1 • SELECT * FROM mydb.vegetable;

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor Field Types

Organic Name

1 Carrots
1 Corn
1 Onions
1 Peas
1 Potatoes
NULL NULL

Table: branchhas1

Columns:

- DriveThrough int
- Street char(5) PK
- PostalCode char(5) PK
- UnitNumber int PK
- SelfService char(5) PK
- EatName char(5) PK

Action Output

#	Time	Action	Message	Duration / Fetch
79	21:21:56	SELECT * FROM mydb.preservation LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
80	21:22:01	SELECT * FROM mydb.recipescontain LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
81	21:22:06	SELECT * FROM mydb.requires LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
82	21:22:10	SELECT * FROM mydb.user LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
83	21:22:15	SELECT * FROM mydb.usess LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
84	21:22:19	SELECT * FROM mydb.vegetable LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session 12°C Nhiều máy 9:22 PM 6/20/2023

d) Queries

- CREATE DATABASE IF NOT EXISTS mysqlDb
- SELECT Name FROM USER WHERE ID = ?
- SELECT * FROM Ingredient
- SELECT IngName FROM possess P, user U where U.ID = P.ID AND U.ID = ?
- DELETE FROM Possess WHERE ID = ? AND IngName = ?
- INSERT INTO Possess VALUES (?, ?)
- SELECT {userInput} FROM recipescontain JOIN nutritionvalue ON recipescontain.NutID = nutritionvalue.ID
- SELECT COUNT(*), ID FROM Possess GROUP BY ID
- SELECT {userInput} FROM recipescontain JOIN nutritionvalue ON recipescontain.NutID = nutritionvalue.ID HAVING nutritionvalue.Calories > 200
- SELECT IngName, COUNT(*) FROM Cook GROUP BY IngName HAVING COUNT(*) >= ALL (SELECT COUNT(*) FROM Cook GROUP BY IngName)
- "SELECT {columns} FROM recipescontain JOIN nutritionvalue ON recipescontain.NutID = nutritionvalue.ID WHERE NOT EXISTS " +
- (SELECT IngName FROM cook C1 WHERE recipescontain.Name = C1.RecName AND C1.IngName NOT IN (SELECT P.IngName FROM Possess P WHERE P.ID = ?))
- SELECT Name FROM Eatery WHERE Culture = ? AND FoodType = ?
- SELECT Street, UnitNumber, PostalCode FROM BranchHas1 WHERE EatName = ?
- SELECT * FROM BranchHas1
- UPDATE BranchHas1 SET Street = ? Where Eatname = ? AND PostalCode = ? AND Street = ? And UnitNumber = ?
- UPDATE BranchHas1 SET UnitNumber = ? Where Eatname = ? AND PostalCode = ? AND Street = ? And UnitNumber = ?
- SELECT {userInput} FROM {userInput} WHERE {userInput}
- DELETE FROM Eatery WHERE Name = ?
- SELECT * FROM Eatery

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e) Sample Query Screenshots

- Insert

Welcome back, what would you like to do?

[Log out](#)

Your ingredients:

- Zucchini

Select an option:

[Add Ingredient](#) [Remove Ingredient](#) [Get recommendation](#)

Choose ingredient to add:

[Beef Loin](#) [Beef Rib](#) [Canola Oil](#) [Carrots](#) [Chicken Breast](#) [Chicken Wing](#) [Corn](#) [Fish Tail](#) [Onions](#) [Peas](#) [Potatoes](#) [Rice](#) [Salt](#) [Tomatoes](#) [Zucchini](#)

[Back](#)

[Return to start](#)

```
1 • SELECT * FROM recipe.possess WHERE ID = 2;
```

1 • SELECT * FROM recipe.possess WHERE ID = 2;

- Delete

This is the Admin interface

Which eatery do you want to delete?

[Starbucks](#) [Sula Indian Restaurant](#) [Tim Hortons](#) [French Table](#)

[back](#)

```
1 • SELECT * FROM recipe.branchhas1;
```

```
1 • SELECT * FROM recipe.branchhas1;
```

[SELECT * FROM recipe.eatery;](#)

[SELECT * FROM recipe.eatery;](#)

[SELECT * FROM recipe.eatery;](#)

[SELECT * FROM recipe.eatery;](#)

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● Update

This is the Admin interface

Which branch do you want to update?

Starbucks,Catherines St 1128	Sula Indian Restaurant,Commercial Drive 1128	Tim Hortons,Fraser St 4064
------------------------------	--	----------------------------

[back](#)

Which attribute do you want to update?

Street UnitNumber

Insert new value

1 • `SELECT * FROM recipe.branchhas1;`

1 • `SELECT * FROM recipe.branchhas1;`

Result Grid					
Edit: Wr					
DriveThrough	Street	PostalCode	UnitNumber	Selfservice	EatName
0	Catherines St	V5P 3W2	1128	1	Starbucks
0	Commercial Drive	V5L 3K2	1128	0	Sula Indian Restaurant
1	Fraser St	V5V 4E7	4064	1	Tim Hortons
NULL	NULL	NULL	NULL	NULL	NULL

Result Grid					
Edit: Wr					
DriveThrough	Street	PostalCode	UnitNumber	Selfservice	EatName
0	Commercial Drive	V5L 3K2	1128	0	Sula Indian Restaurant
1	Fraser St	V5V 4E7	4064	1	Tim Hortons
0	<input type="text" value="test"/>	V5P 3W2	1128	1	Starbucks
NULL	NULL	NULL	NULL	NULL	NULL

● Selection

This is the Admin interface

Master Query

Insert table name

Insert column names (comma separated)

Insert condition



This is the Admin interface

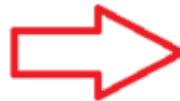
Result from query:

{"Name": "Starbucks", "Culture": "Western", "FoodType": "Coffee"}

● Projection

What recipe information do you want to see?

Difficulty Fat Protein



- Zucchini Smoothie
 - Calories: 70
 - Difficulty: Easy
 - Fat(g): 1
 - Protein(g): 2

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- Join

What recipes are you looking for?

I have all the ingredients All recipes High calorie (>200)

All these queries join recipecontain and nutritionalvalue in order to get recipe difficulty and nutritional value

- Aggregation with GROUP BY
 - grouping ingredients by user

This is the Admin interface

Update branch locations See users inventory count Delete an eatery Master query

This is the Admin interface

- User 1 has 3 ingredients.
- User 2 has 1 ingredients.
- User 3 has 1 ingredients.
- User 4 has 1 ingredients.
- User 5 has 1 ingredients.

back

- Aggregation with HAVING
 - recipes having calories > 200

What recipes are you looking for?

I have all the ingredients All recipes High calorie (>200)



- Grilled Tomahawk Steak
 - Calories: 300
- Maple Cupcakes
 - Calories: 350
- Scotch Eggs
 - Calories: 240

Search other recipes

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- Nested Aggregation with Group By
 - Ingredients used in most recipes

Welcome back, what would you like to do?

[Log out](#)

Your ingredients:

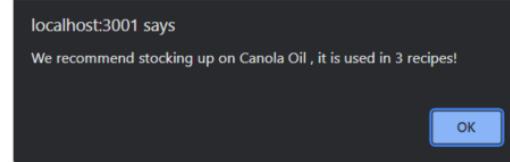
- Zucchini

Select an option:

[Add Ingredient](#) [Remove Ingredient](#) [Get recommendation](#)

[Back](#)

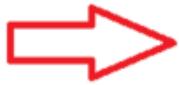
[Return to start](#)



- DIVISION
 - recipes that the user has all ingredients for

What recipes are you looking for?

I have all the ingredients All recipes High calorie (>200)



- Zucchini Smoothie
 - Calories: 70

[Search other recipes](#)