CPSC 304 Project Cover Page

Milestone #:	_4
Date:Apr 4,	2023
Group Number: _	40

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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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WedUP

Leave the planning UP to us.

Description

WedUP is a wedding planner – built for wedding planners!

WedUP solves the difficulties of managing personnel by modelling wedding staff and guests in the database. Other entities in the database will also aid users in finding suitable services or staff to hire or book. With the database relations in place, users will be able to see which aspects of the wedding still need to be finalized or addressed. By modelling a detailed wedding service, WedUP reduces the need for planners to be bogged down by the overwhelming amount of logistics, and instead focus on delivering a spectacular wedding service for their clients.

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Schema Differences

- Added a participation constraint between a staff and their company.
 - The reason for this addition was because we didn't want to allow users to be able to add staff to the database without specifying a company, since the company would contain the information about their hourly rate. From a user standpoint, it would not make much sense for a user to be able to add staff with no rates to a wedding.
- Included a couple additional INSERT statements that were not present in the Milestone 3 DDL.
 - This was done so that all the aggregated GROUP BY queries would return results without needing to have the user insert additional data.
- For table was changed to ForWho, because SQL Plus was having problems creating a table called For.
- Using IDENTITY to autoincrement wedding numbers so that users do not need to worry about tracking unique IDs.

Schema

- WeddingsBookFor(WeddingNumber: Integer, **StreetAddress: String**, WeddingDate: Date)
 - StreetAddress is not null
- BridesHolds(Email: String, FirstName: String, LastName: String, BouquetType: String)
- GroomsMarry(Email: String, FirstName: String, LastName: String, BrideEmail: String,

WeddingNumber: Integer)

- o BrideEmail is unique and not null
- WeddingNumber is unique and not null
- Bouquets(BouquetType: String)
- Entourages(Email: String, Role: String, FirstName: String, LastName: String)
- EntouragesAttire(Role: String, Attire: String)
- Venues(StreetAddress: String, Name: String, MaxCapacity: Integer, **PostalCode: String**)
- VenuesProvince(PostalCode: String, Province: String)
- Staff(Email: String, Company: String, FirstName: String, LastName: String)
- StaffHourlyRate(Company: String, HourlyRate: Integer)
- Officiants(**Email: String**, IsAPriest: Boolean)
- Caterers(Email: String, Cuisine: String)
- Photographers(**Email: String**, Camera: String)
- Cakes(Flavour: String, NumberOfTiers: Integer)
- Guests(Email: String, FirstName: String, LastName: String)
- PlusOnesBring(**GuestEmail: String**, PlusOneEmail: String, FirstName: String, LastName: String)
- ParticipateIn(WeddingNumber: Integer, EntourageEmail: String)
- WorksAt(WeddingNumber: Integer, StaffEmail: String)
- Attends(WeddingNumber: Integer, GuestEmail: String)
- Bakes(CatererEmail: String, Flavour: String, NumberOfTiers: Integer)
- ForWho(Flavour: String, NumberOfTiers: Integer, WeddingNumber: Integer)

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Screenshots of Data after Initialization (In Order of Schema Above)







Search
Search in: Please select
What are you looking for?
All details ✓
Filter by: none V is
Submit
BOUQUETTYPE
cascade
hand-tied
nosegay
pomander
posy
round



EMAIL	ROLE	FIRSTNAME	LASTNAME
captrenault@gmail.com	best man	Louis	Renault
victorlaszlo@gmail.com	usher	Victor	Laszlo
ruthdewittbukater@gmail.com	bridesmaid	Ruth	DeWitt Bukater
lizzyclavert@gmail.com	flower girl	Lizzy	Calvert
tommyryan@gmail.com	best man	Tommy	Ryan
laurawilder@gmail.com	bridesmaid	Laura	Wilder
ltdan@gmail.com	best man	Dan	Taylor
bubba@gmail.com	groomsman	Benjamin Buford	Blue
charlesmuntz@gmail.com	usher	Charles	Muntz
russelnagai@gmail.com	ring bearer	Russel	Nagai



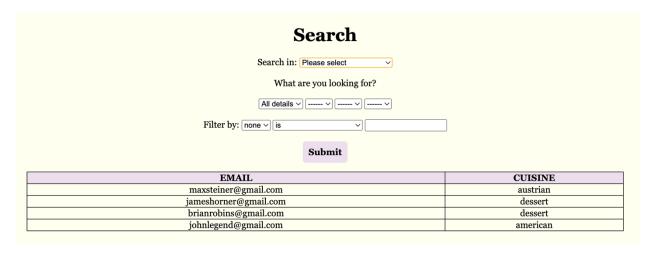
Search				
Search in: Please select				
What are you looking for?				
All details \vee \vee \vee				
Filter by: none V is				
Submit				
STREETADDRESS	NAME	MAXCAPACITY	POSTALCODE	
601 Smithe St	The Orpheum	2780	V6B 3L4	
6301 Crescent Rd	UBC Rose Garden	250	V6T 1Z2	
5251 Oak St	VanDusen Botanical Garden	400	V6M 4H1	
845 Avison Way	Vancouver Aquarium	1000	V6G 3E2	
405 Spray Ave	Fairmont Banff Springs	2500	T1L 1J4	



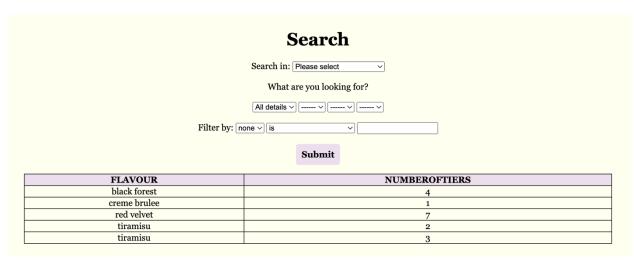


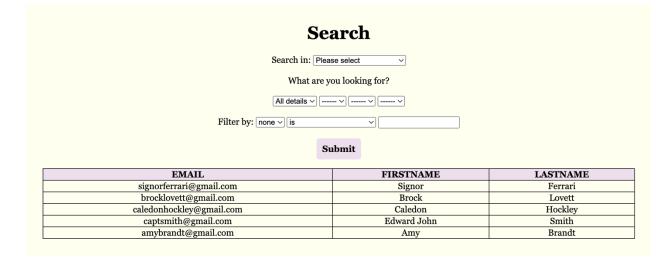
Search in: Please select What are you looking for? All details > > > Filter by: none > is			
All details \checkmark \checkmark \checkmark			
Filter by: none ✓ is ✓			
Submit			
COMPANY HOURLYRATE			
Casablanca Co. 30			
Titanic Studio 28			
La La Land Ltd. 22			
Paramount 20			
Forrest Gump and Co. 23			
Up Services 22			







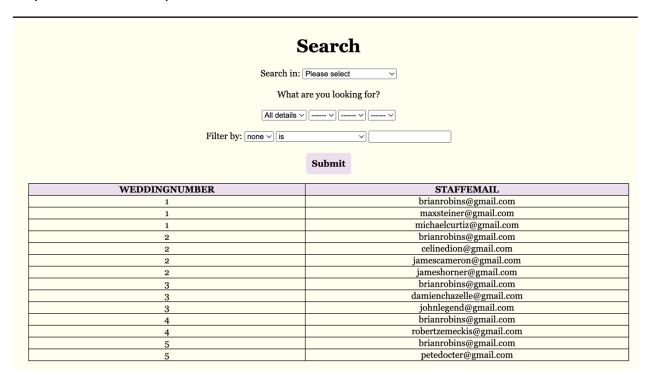




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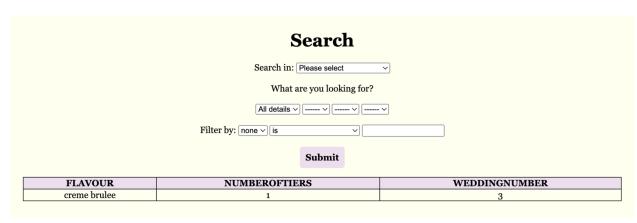
Search				
Search in: Please select				
What are you looking for?				
All details vvv				
Filter by: none is				
Submit				
GUESTEMAIL	PLUSONEEMAIL	FIRSTNAME	LASTNAME	
signorferrari@gmail.com	majstrasser@gmail.com	Heinrich	Strasser	
signorferrari@gmail.com	janbrandel@gmail.com	Jan	Brandel	
brocklovett@gmail.com	0 00			
caledonhockley@gmail.com	spicerlovejoy@gmail.com	Spicer	Lovejoy	
captsmith@gmail.com archibaldgracie@gmail.com Archibald Gracie			Gracie	

Search Search in: Please select What are you looking for? All details \checkmark ----- \checkmark ----- \checkmark Filter by: none > is Submit WEDDINGNUMBER **ENTOURAGEEMAIL** captrenault@gmail.com victorlaszlo@gmail.com lizzyclavert@gmail.com ruthdewittbukater@gmail.com 2 2 tommyryan@gmail.com laurawilder@gmail.com 3 bubba@gmail.com ltdan@gmail.com 4 charlesmuntz@gmail.com 5 russelnagai@gmail.com









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INSERT

There are multiple tables we allow inserts for, here is one example:

Users can insert guests and plus ones in the add guest page. Users can also add staff in the add staff page. Below is an example of adding a guest and plus one to a wedding.

Brandt Gracie Lovett Hockley

Smith De Rossi Brandel Strasser Ferrari Lovejoy

add staπ page. Below is an example of adding a g	juest and plus one to
Wedding Information	
Select wedding to add guest to:	
Guest Information	
First name: Last name:	
Email:	
Plus-One Information (Optional)	
First name: Last name:	
Email:	
Submit	
Display all guests and plus ones	
Submit	
	71
Email amybrandt@gmail.com	FirstName Amy
archibaldgracie@gmail.com brocklovett@gmail.com	Archibald Brock
caledonhockley@gmail.com	Caledon
captsmith@gmail.com fabrizioderossi@gmail.com	Edward John Fabrizio
janbrandel@gmail.com	Jan
majstrasser@gmail.com signorferrari@gmail.com	Heinrich Signor
spicerlovejoy@gmail.com	Spicer
Guest Information First name: test1 Last name: test2]
Email: teste@gmail.com Plus-One Information (Optional)	
First name: potest1 Last name: potest2	
Email: poteste@yahoo.com	
Submit	
Display all guests and plus ones	
Submit	
GUEST ADDED! GUEST ADDED TO WEDDING PLUSONE ADDED!	

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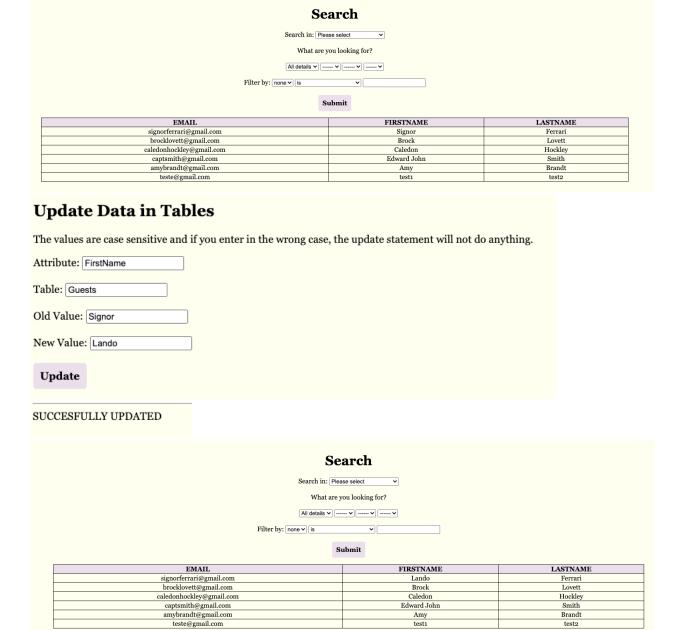
all guests	and plus ones		
	Email	FirstName	LastName
	amybrandt@gmail.com	Amy	Brandt
	archibaldgracie@gmail.com	Archibald	Gracie
	brocklovett@gmail.com	Brock	Lovett
	caledonhockley@gmail.com	Caledon	Hockley
	captsmith@gmail.com	Edward John	Smith
	fabrizioderossi@gmail.com	Fabrizio	De Rossi
	janbrandel@gmail.com	Jan	Brandel
	majstrasser@gmail.com	Heinrich	Strasser
	poteste@yahoo.com	potest1	potest2
	signorferrari@gmail.com	Signor	Ferrari
	spicerlovejoy@gmail.com	Spicer	Lovejoy
	teste@gmail.com	test1	test2

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-72/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit_e/guests.php#L192-L227

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UPDATE

In the update and delete page, users can specify a tuple they want to update by providing the attribute to be updated, the table name, and the old and new values.



CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project_I5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/pupdate_delete.php#L124-L141

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DELETE

In the update and delete page, users can specify tuples to delete by providing the primary key of the table, the table name, and the matching value of the primary key. The delete will cascade. In this example, deleting a company will also delete all staff working for that company.

Delete Tuples from Tables
The values are case sensitive and if you enter in the wrong case, the delete statement will not do anything.
ID: Company
Table: StaffHourlyRate
Value: Titanic Studio
Delete
Delete Tuples from Tables
The values are case sensitive and if you enter in the wrong case, the delete statement will not do anything.
ID:
Table:
Value:
Delete
SUCCESFULLY DELETED

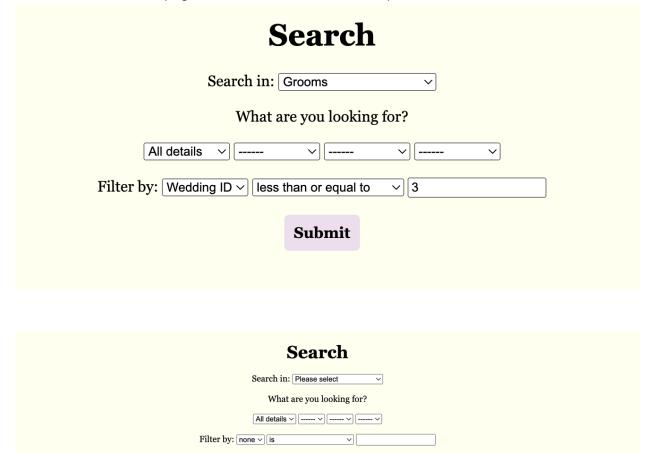


CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project | 15m7y | n9n4k | u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit | e/update | delete.php#L145-L165

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SELECTION

In the search and filter page, users can submit selection queries:



CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project | 15m7y | n9n4k | u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit e/search.php#L686-L713

Submit

BRIDEEMAIL

ilsalund@gmail.com

rosedewittbukater@gmail.com

miadolan@gmail.com

WEDDINGNUMBER

LASTNAME

Blaine

Dawson

Wilder

FIRSTNAME

Rick

Jack

Sebastian

EMAIL

rickblaine@gmail.com

jackdawson@gmail.com

sebwilder@gmail.com

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PROJECTION

In the search and filter page, users can select as many attributes as they want from a table. Since the most attributes our tables can have is 5 (GroomsMarry), we allow the user to select up to 4 attributes (if they want to see all 5, they can just select "all details"):



CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project | 15m7y | n9n4k | u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit e/search.php#L686-L713

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JOIN

In the view all weddings page, we provide a query that finds all people who are a part of a given wedding. This performs a join on all people-related tables to retrieve the data.

Find all	people in	specified	wedding	(Provide	Wedding ID):	2
----------	-----------	-----------	---------	----------	--------------	---

Submit

First Name	Last Name	Email	
Archibald	Gracie	archibaldgracie@gmail.com	
Brian	Robins	brianrobins@gmail.com	
Brock	Lovett	brocklovett@gmail.com	
Caledon	Hockley	caledonhockley@gmail.com	
Celine	Dion	celinedion@gmail.com	
Edward John	Smith	captsmith@gmail.com	
Fabrizio	De Rossi	fabrizioderossi@gmail.com	
Jack	Dawson	jackdawson@gmail.com	
James	Cameron	jamescameron@gmail.com	
James	Horner	jameshorner@gmail.com	
Lizzy	Calvert	lizzyclavert@gmail.com	
Rose	DeWitt Bukater	rosedewittbukater@gmail.com	
Ruth	DeWitt Bukater	ruthdewittbukater@gmail.com	
Spicer	Lovejoy	spicerlovejoy@gmail.com	
Tommy	Ryan	tommyryan@gmail.com	

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-72/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit_e/view_weddings.php#L139-L185

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AGGREGATION WITH GROUP BY

In the view all weddings page, we provide a query that lists the number of staff working at each wedding. This utilizes a COUNT aggregation and groups the results by wedding number.

List the number of staff for each wedding:

Submit

Wedding ID	Number of Staff
1	3
2	4
3	3
4	2
5	2

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project | 15m7y | n9n4k | u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit e/view | weddings.php#L187-L198

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AGGREGATION WITH HAVING

In the view all weddings page, we provide a query to find weddings that have a total hourly cost over the given amount. This utilizes a SUM aggregation and filters out groups that have a SUM hourly cost less than the given amount.

Find the weddings that have a total hourly cost over (in \$): 50

Submit

Wedding ID	Total Hourly Cost
1	80
2	104
3	64

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-72/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sitellow-weddings.php#L200-L217

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NESTED AGGREGATION WITH GROUP BY

In the view all weddings page, we provide a query to find the number of guests in each wedding who are bringing at least one other person with them. The nested subquery finds all the guests who are bringing plus ones for each wedding, while the outer query checks if a guest belongs in that result set.

Find the weddings that	t have at least 2 guests bringing plus ones:	
Submit		
Wedding ID	Number of Guests Bringing Plus Ones	
2		3

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-
T2/project I5m7y n9n4k u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sit e/view weddings.php#L219-L238

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DIVISION

In the view all weddings page, we provide a query to find all the staff who have worked in every wedding.

Find all staff who worked in all weddings:

Submit

EMAIL	COMPANY	FIRSTNAME	LASTNAME
brianrobins@gmail.com	Paramount	Brian	Robins

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-72/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/sitellow-weddings.php#L240-L256

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SCREENSHOTS

Some of the images provided above were condensed screenshots to not clutter the page.

Find all people in specified wedding (Provide Wedd Submit List the number of staff for each wedding: Submit Find the weddings that have a total hourly cost over Submit Find the weddings that have at least Submit Find all staff who worked in all weddings: Submit		XA7 - J J!			
Submit List the number of staff for each wedding: Submit Find the weddings that have a total hourly cost over Submit Find the weddings that have at least Submit Find all staff who worked in all weddings:		Wedding	S		
List the number of staff for each wedding: Submit Find the weddings that have a total hourly cost over Submit Find the weddings that have at least Submit Find all staff who worked in all weddings:	ling ID):				
Submit Find the weddings that have a total hourly cost over Submit Find the weddings that have at least Submit Find all staff who worked in all weddings:					
Find the weddings that have a total hourly cost over Submit Find the weddings that have at least Submit Find all staff who worked in all weddings:					
Submit Find the weddings that have at least Submit Find all staff who worked in all weddings:					
Find the weddings that have at least Submit Find all staff who worked in all weddings:	r (in \$):				
Submit Find all staff who worked in all weddings:					
Find all staff who worked in all weddings:	guests bringing plus on	nes:			
Submit					
E		COMPANY	FIRSTNAME	LASTNAME	
brianrobir	MAIL	Paramount	Brian	Robins	

This is what the JOIN, GROUP BY, HAVING, and NESTED, queries look like from the GUI, with the results being displayed at the bottom. To save space on this document, we cropped the screenshots.

Main Menu
Update Data in Tables
The values are case sensitive and if you enter in the wrong case, the update statement will not do anything.
Attribute:
Table:
Old Value:
New Value:
Update
Delete Tuples from Tables
The values are case sensitive and if you enter in the wrong case, the delete statement will not do anything.
ID:
Table:
Value:
Delete Delete

This is what the update and delete page looks like. Again, we cropped the screenshots to only display the relevant query.