

CPSC 304 Project Cover Page

Milestone #: ____4____

Date: ____Apr 4, 2023____

Group Number: ____40____

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Parker Lee	35909605	u4s5k	parkerlee247@gmail.com
Drea Sy-Quia	96799671	l5m7y	dreasyquia@gmail.com
Jason Liu	16585622	n9n4k	jl1u02asap@gmail.com

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

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.

Schema Differences

- Added a participation constraint between a staff and their company.
 - o 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.
 - o 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)
 - o 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
 - o 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**)

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

Search

Search in:

What are you looking for?

Filter by: is

Submit

WEDDINGNUMBER	STREETADDRESS	WEDDINGDATE
1	601 Smithe St	23-AUG-23
2	6301 Crescent Rd	24-SEP-23
3	5251 Oak St	25-OCT-23
4	845 Avison Way	26-NOV-23
5	405 Spray Ave	27-DEC-23

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	FIRSTNAME	LASTNAME	BOUQUETTYPE
ilsalund@gmail.com	Ilsa	Lund	cascade
rosedewittbukater@gmail.com	Rose	DeWitt Bukater	posy
miadolana@gmail.com	Amelia	Dolan	hand-tied
jennycurran@gmail.com	Jenny	Curran	round
elliedocter@gmail.com	Elizabeth	Docter	pomander

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	FIRSTNAME	LASTNAME	BRIDEEMAIL	WEDDINGNUMBER
rickblaine@gmail.com	Rick	Blaine	ilsalund@gmail.com	1
jackdawson@gmail.com	Jack	Dawson	rosedewittbukater@gmail.com	2
sebwilder@gmail.com	Sebastian	Wilder	miadolana@gmail.com	3
forrestgump@gmail.com	Forrest	Gump	jennycurran@gmail.com	4
carlfredrickson@gmail.com	Carl	Fredrickson	elliedocter@gmail.com	5

Search

Search in:

What are you looking for?

Filter by: is

Submit

BOUQUETTYPE
cascade
hand-tied
nosegay
pomander
posy
round

Search

Search in:

What are you looking for?

Filter by: is

Submit

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:

What are you looking for?

Filter by: is

Submit

ROLE	ATTIRE
best man	suit
groomsman	suit
bridesmaid	dress
flower girl	dress
usher	suit
ring bearer	suit

Search

Search in:

What are you looking for?

Filter by: 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

Search in:

What are you looking for?

Filter by: is

Submit

POSTALCODE	PROVINCE
V6B 3L4	BC
V6T 1Z2	BC
V6M 4H1	BC
V6G 3E2	BC
T1L 1J4	Alberta

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	COMPANY	FIRSTNAME	LASTNAME
michaelcurtiz@gmail.com	Casablanca Co.	Michael	Curtiz
maxsteiner@gmail.com	Casablanca Co.	Max	Steiner
jamescameron@gmail.com	Titanic Studio	James	Cameron
jameshorner@gmail.com	Titanic Studio	James	Horner
celinedion@gmail.com	Titanic Studio	Celine	Dion
damienchazelle@gmail.com	La La Land Ltd.	Damien	Chazelle
johnlegend@gmail.com	La La Land Ltd.	John	Legend
brianrobins@gmail.com	Paramount	Brian	Robins
robertzemeckis@gmail.com	Forrest Gump and Co.	Robert	Zemeckis
petedocter@gmail.com	Up Services	Pete	Docter

Search

Search in:

What are you looking for?

Filter by: 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

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	ISAPRIEST
michaelcurtiz@gmail.com	1
jamescameron@gmail.com	0
damienchazelle@gmail.com	0

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	CUISINE
maxsteiner@gmail.com	austrian
jameshorner@gmail.com	dessert
brianrobins@gmail.com	dessert
johnlegend@gmail.com	american

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	CAMERA
celinedion@gmail.com	canon
petedocter@gmail.com	nikon

Search

Search in:

What are you looking for?

Filter by: is

Submit

FLAVOUR	NUMBEROFTIERS
black forest	4
creme brulee	1
red velvet	7
tiramisu	2
tiramisu	3

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	FIRSTNAME	LASTNAME
signorferrari@gmail.com	Signor	Ferrari
brocklovett@gmail.com	Brock	Lovett
caledonhockley@gmail.com	Caledon	Hockley
captsmith@gmail.com	Edward John	Smith
amybrandt@gmail.com	Amy	Brandt

Search

Search in:

What are you looking for?

Filter by: 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	fabrizioderossi@gmail.com	Fabrizio	De Rossi
caledonhockley@gmail.com	spicerlovejoy@gmail.com	Spicer	Lovejoy
captsmith@gmail.com	archibaldgracie@gmail.com	Archibald	Gracie

Search

Search in:

What are you looking for?

Filter by: is

Submit

WEDDINGNUMBER	ENTOURAGEEMAIL
1	captrenault@gmail.com
1	victorlaszlo@gmail.com
2	lizzyclavert@gmail.com
2	ruthdewittbukater@gmail.com
2	tommyryan@gmail.com
3	laurawilder@gmail.com
4	bubba@gmail.com
4	ltdan@gmail.com
5	charlesmuntz@gmail.com
5	russeInagai@gmail.com

Search

Search in:

What are you looking for?

Filter by: is

Submit

WEDDINGNUMBER	STAFFEMAIL
1	brianrobins@gmail.com
1	maxsteiner@gmail.com
1	michaelcurtiz@gmail.com
2	brianrobins@gmail.com
2	celinedion@gmail.com
2	jamescameron@gmail.com
2	jameshorner@gmail.com
3	brianrobins@gmail.com
3	damienchazelle@gmail.com
3	johnlegend@gmail.com
4	brianrobins@gmail.com
4	robertzemeckis@gmail.com
5	brianrobins@gmail.com
5	petedocter@gmail.com

Search

Search in:

What are you looking for?

Filter by: is

Submit

WEDDINGNUMBER	GUESTEMAIL
1	signorferrari@gmail.com
2	brocklovett@gmail.com
2	caledonhockley@gmail.com
2	captsmith@gmail.com
3	amybrandt@gmail.com

Search

Search in:

What are you looking for?

Filter by: is

Submit

CATEREREMAIL	FLAVOUR	NUMBEROFTIERS
brianrobins@gmail.com	creme brulee	1
brianrobins@gmail.com	red velvet	7
brianrobins@gmail.com	tiramisu	2
jameshorner@gmail.com	black forest	4
jameshorner@gmail.com	tiramisu	3

Search

Search in:

What are you looking for?

Filter by: is

Submit

FLAVOUR	NUMBEROFTIERS	WEDDINGNUMBER
creme brulee	1	3

University of British Columbia, Vancouver

Department of Computer Science

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.

Main Menu

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

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
signorferrari@gmail.com	Signor	Ferrari
spicerlovejoy@gmail.com	Spicer	Lovejoy

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

GUEST ADDED!
GUEST ADDED TO WEDDING
PLUSONE ADDED!

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Display all guests and plus ones

Submit

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	potesti	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-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/quests.php#L192-L227

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.

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	FIRSTNAME	LASTNAME
signorferrari@gmail.com	Signor	Ferrari
brocklovet@gmail.com	Brock	Lovett
caledonhockey@gmail.com	Caledon	Hockley
captsmith@gmail.com	Edward John	Smith
amybrandt@gmail.com	Amy	Brandt
teste@gmail.com	test1	test2

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

SUCCESSFULLY UPDATED

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	FIRSTNAME	LASTNAME
signorferrari@gmail.com	Lando	Ferrari
brocklovet@gmail.com	Brock	Lovett
caledonhockey@gmail.com	Caledon	Hockley
captsmith@gmail.com	Edward John	Smith
amybrandt@gmail.com	Amy	Brandt
teste@gmail.com	test1	test2

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/update_delete.php#L124-L141

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:

Table:

Value:

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

SUCCESSFULLY DELETED

Search

Search in:

What are you looking for?

Filter by: is

Submit

EMAIL	COMPANY	FIRSTNAME	LASTNAME
michaelcurtiz@gmail.com	Casablanca Co.	Michael	Curtiz
maxsteiner@gmail.com	Casablanca Co.	Max	Steiner
damienchazelle@gmail.com	La La Land Ltd.	Damien	Chazelle
johnlegend@gmail.com	La La Land Ltd.	John	Legend
brianrobins@gmail.com	Paramount	Brian	Robins
robertzemeckis@gmail.com	Forrest Gump and Co.	Robert	Zemeckis
petedocter@gmail.com	Up Services	Pete	Docter

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/update_delete.php#L145-L165

SELECTION

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

Search

Search in:

What are you looking for?

Filter by:

Submit

Search

Search in:

What are you looking for?

Filter by:

Submit

EMAIL	FIRSTNAME	LASTNAME	BRIDEEMAIL	WEDDINGNUMBER
rickblaine@gmail.com	Rick	Blaine	ilsalund@gmail.com	1
jackdawson@gmail.com	Jack	Dawson	rosedewittbukater@gmail.com	2
sebwilder@gmail.com	Sebastian	Wilder	miadolan@gmail.com	3

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/search.php#L686-L713

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”):

Search

Search in:

What are you looking for?

Filter by:

Submit

Search

Search in:

What are you looking for?

Filter by:

Submit

FIRSTNAME	LASTNAME	EMAIL
Rick	Blaine	rickblaine@gmail.com
Jack	Dawson	jackdawson@gmail.com
Sebastian	Wilder	sebwilder@gmail.com
Forrest	Gump	forrestgump@gmail.com
Carl	Fredrickson	carlfredrickson@gmail.com

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/search.php#L686-L713

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):

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-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/view_weddings.php#L139-L185

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_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/view_weddings.php#L187-L198

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 \$):

Submit

Wedding ID	Total Hourly Cost
1	80
2	104
3	64

CODE REFERENCE: https://github.students.cs.ubc.ca/CPSC304-2022W-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/view_weddings.php#L200-L217

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 have at least 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_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/view_weddings.php#L219-L238

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-T2/project_l5m7y_n9n4k_u4s5k/blob/379a12ec98175cf673b2219fe1ff305e7b4bc916/src/php/site/view_weddings.php#L240-L256

SCREENSHOTS

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

Main Menu

Weddings

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

Submit

List the number of staff for each wedding:

Submit

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

Submit

Find the weddings that have at least guests bringing plus ones:

Submit

Find all staff who worked in all weddings:

Submit

EMAIL	COMPANY	FIRSTNAME	LASTNAME
brianrobins@gmail.com	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

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