Project Description

Swipemates is an innovative roommate-matching application specifically meant for UBC students. The application aims to ease the process of finding accommodation both on and off campus. Through this project, users can create detailed profiles, including their living preferences, and requirements. This application provides functionalities to filter search queries, perform aggregation on residence data, and execute complex SQL queries such as division and natural join, enhancing the user experience.

Relational Schema (Primary Key: Underline, Foreign Key: Bold, Candidate Key: *Italics*)

- User (<u>UserID</u>: varchar, Name: varchar NOT NULL, Gender: varchar NOT NULL, Age: integer, Bio: varchar NOT NULL, DOB: Date NOT NULL)
- **ISA:** Lister_LivesIn (<u>ListerID</u>: varchar, **ResID**: varchar NOT NULL, Rent: integer NOT NULL, Property Type: varchar NOT NULL)
- ISA: Seeker (SeekerID: varchar, Maximum Rent Budget: integer, Seeking Type: varchar)
- Residence (ResID: varchar, Address: varchar, Amenities: varchar, Number of Floors: integer, Building Name: varchar, Number of Rooms: integer)
- LookingFor (**ResID**: varchar, **UserID**: varchar)
- Preferences (**PreferencesID**: varchar, Preferred Gender: varchar, Preferred Age-Range: varchar, Preferred Lifestyle: varchar, Preferred Location: varchar)
- Selects (**UserID**: varchar, **PreferencesID**: varchar)
- Requirements (**RequirementsID**: varchar, Required Gender: varchar, Required Age-Range: varchar, Required Lifestyle: varchar, Required Location: varchar)
- Needs (**UserID**: varchar)
- Receives_Match (MatchID: varchar, **UserID**: varchar NOT NULL, **MatchUserID**: varchar NOT NULL)
- Gets_Notification (**MatchID**: varchar, Number: integer NOT NULL, Message: varchar NOT NULL)
- CompatibilityScore (MatchID: varchar, Score: varchar NOT NULL, Message: varchar)
- SocialPage_Has (EmailID: varchar, **UserID**: varchar, *Phone Number*: integer, *Instagram Username*: varchar)
- Swipe Right (MatchUserId: varchar, UserID: varchar)

Changes

The final schema for the SwipeMates project went through several changes compared to the one submitted initially, primarily because of constraints of time and Oracle limitations.

Due to limited time, we focused on the main functionality of the application which meant tables like the Receives_Match, Gets_Notification, and CompatibilityScore were not fully implemented. These tables were not critical for the basic operation of the application. Therefore, the DDL statements and insertion operations for these tables were not included.

The data types in the original schema needed changes to align with Oracle-supported data types, for ex. The 'TEXT' data type is not supported by Oracle (changed to Varchar).

In Preferences and Requirements, the ids were the primary key, but we modified it to become foreign keys referencing userID in the Users table. This helped us simplify the database.

Oracle does not support 'ON UPDATE CASCADE' command. As a result, this is was removed from the Create Table statements.

USERS

	∏ USERID ÷	☐ NAME	☐ GENDER ÷	∏ BIO	
1	L123456	Devin Proothi	Male	UBC, Year 3, CS.	24
2	S123456	Aryaan Habib	Male	UBC, Year 3, Forestry.	36
3	L101010	Nabeel Ali	Female	UBC. Year 3. Psychology.	34
4	S101010	Kartikeya Chaturvedi	Male	UBC. Year 4. Sauder	24
5	S987654	Aaditya Desai	Male	UBC. Year 3. English.	31
6	L765432	Sid Jain	Male	UBC. Year 6. International Relations.	24
7	L345678	Rishav	Male	UBC. Year 5. International Relations.	31
8	L012120	Aneyeant	Female	UBC. Year 1. International Relations.	31
9	\$765432	Anmol	Male	UBC. Year 3. International Relations.	36
10	S012120	Jaimin	Male	UBC. Year 4. International Relations.	34
11	L012128	Jai	Female	UBC. Year 4. International Relations.	24
12	S012129	Man	Female	UBC. Year 4. International Relations.	26
13	L876543	Alex Smith	Male	UBC. Year 2. Computer Science.	20
14	L123789	Jessica Jones	Female	UBC. Year 1. Biology.	18
15	L456123	Michael Chen	Male	UBC. Year 3. Economics.	21
16	L789456	Laura Gibson	Female	UBC. Year 2. English Literature.	19
17	S321654	Omar Farooq	Male	UBC. Year 3. Political Science.	22
18	S654987	Priya Singh	Female	UBC. Year 1. Sociology.	18
19	S987321	Ethan Wong	Male	UBC. Year 2. Mathematics.	20
20	\$159753	Sophia Loren	Female	UBC. Year 3. Fine Arts.	21

PREFERENCES

	PREFERENCESID ÷	☐ PREFERREDGENDER ÷	□ PREFERREDAGERANGE	□ PREFERREDLIFESTYLE	☐ PREFERREDLOCATION ÷
1	L123456	Female	26-30	Active	Off Campus
2	S123456	Female	31-40	Quiet	On Campus
3	L101010	Other	18-25	Active	<null></null>
4	S101010	Male	31-40	Quiet	On Campus
5	S987654	Other		Active	Off Campus
6	L765432	Female	41-50	Quiet	On Campus
7	L345678	Male	18-25	Active	Off Campus
8	L012120	Other	31-40	Quiet	On Campus
9	S765432	Female	26-30		Off Campus
10	S012120	Male	41-50	Quiet	On Campus
11	L012128	Other	18-25	Active	Off Campus
12	S012129		31-40	Quiet	On Campus
13	L876543	Male	26-30	Active	Off Campus
14	L123789	Other	41-50	Quiet	On Campus
15	L456123	Female	18-25	Active	Off Campus
16	L789456	Male	31-40	Quiet	On Campus
17	\$321654	Other	26-30	Active	Off Campus
18	\$654987	Female	41-50	Quiet	On Campus
19	\$987321	Male	18-25	Active	Off Campus
20	\$159753	<null></null>	<null></null>	<null></null>	On Campus

REQUIREMENTS

	☐ REQUIREMENTID ÷	☐ REQUIREDGENDER ÷	☐ REQUIREDAGERANGE \$	☐ REQUIREDLIFESTYLE ÷	☐ REQUIREDLOCATION ÷
1	L123456	Female		Active	Off Campus
2	S123456	Female	31-40	Quiet	On Campus
3	L101010	Other	18-25	Active	Off Campus
4	S101010	Male	31-40	Quiet	On Campus
5	\$987654	Other	26-30	Active	Off Campus
6	L765432	Female	41-50	Quiet	On Campus
7	L345678	Male	18-25	Active	Off Campus
8	L012120	Other	31-40	Quiet	On Campus
9	\$765432	Female	26-30	Active	Off Campus
10	S012120	Male	41-50	Quiet	On Campus
11	L012128	Other	18-25	Active	Off Campus
12	S012129	Female	31-40	Quiet	On Campus
13	L876543	Male	26-30	Active	Off Campus
14	L123789		41-50	Quiet	On Campus
15	L456123	Female	18-25	Active	Off Campus
16	L789456	Male	31-40		On Campus
17	\$321654	Other	26-30	Active	Off Campus
18	S654987	Female	41-50	Quiet	<null></null>
19	\$987321	Male	18-25	Active	Off Campus
20	\$159753	<null></null>	31-40	<null></null>	<null></null>

SOCIALPAGEHAS

	D		D 1105555	E succession	E THOTAGO
	<u>□</u> EMAILID	÷	<u>∏</u> USERID	☐ PHONENUMBER ÷	☐ INSTAGRAMUSERNAME
1	devin.proothi@gmail.com		L123456	7780000001	devinproothi
2	aryaan.habib@gmail.com		S123456	7780000002	aryaanhabib
3	nabeel.ali@gmail.com		L101010	7780000003	nabeelali
4	kartikeya.chaturvedi@gmail.com		S101010	7780000004	kartikeyachaturvedi
5	aaditya.desai@gmail.com		S987654	7780000005	aadityadesai
6	sid.jain@gmail.com		L765432	7780000006	sidjain
7	rishav.ubc@gmail.com		L345678	7780000007	rishavubc
8	aneyeant@gmail.com		L012120	7780000008	aneyeant
9	anmol.ubc@gmail.com		S765432	7780000009	anmolubc
10	jaimin@gmail.com		S012120	7780000010	jaiminubc
11	jai@gmail.com		L012128	7780000011	jaiubc
12	man@gmail.com		S012129	7780000012	manubc
13	alex.smith@gmail.com		L876543	7780000013	alexsmithubc
14	jessica.jones@gmail.com		L123789	7780000014	jessicajonesubc
15	michael.chen@gmail.com		L456123	7780000015	michaelchenubc
16	laura.gibson@gmail.com		L789456	7780000016	lauragibsonubc
17	omar.farooq@gmail.com		S321654	7780000017	omarfarooqubc
18	priya.singh@gmail.com		S654987	7780000018	priyasinghubc
19	ethan.wong@gmail.com		S987321	7780000019	ethanwongubc
20	sophia.loren@gmail.com		S159753	7780000020	sophialorenubc

LISTER

	原 LISTERID	‡	☐ RESID ÷		☐ LISTINGTYPE
1	L123456		res01		On Campus
2	L101010		res02	1	On Campus
3	L765432		res03	l	On Campus
4	L345678		res04	ļ	On Campus
5	L012120		res05	l	On Campus
6	L012128		res06	1	Off Campus
7	L876543		res07	1	Off Campus
8	L123789		res08	l	Off Campus
9	L456123		res09	1	Off Campus
10	L789456		res10	1	Off Campus

SEEKER

	—	D
	₩ SEEKERID ÷	☐ SEEKINGTYPE
1	S123456	On Campus
2	S101010	On Campus
3	S987654	On Campus
4	S765432	On Campus
5	S012120	On Campus
6	S012129	Off Campus
7	S321654	Off Campus
8	S654987	Off Campus
9	S987321	Off Campus
10	S159753	Off Campus

RES

1/1	<u> </u>					
	∏ RESID \$	□ ADDRESS	☐ AMENITIES	□ NUMBEROFROOMS	☐ RENT ÷	☐ TYPE
1	res01	123 Main St	Pool, Gym, Parking	1	1000	On Campus
2	res02	456 Elm St	Gym, Parking	2	1200	On Campus
3	res03	789 Oak St	Pool, Parking		1500	On Campus
4	res04	101 Pine St	Gym	1	1300	On Campus
5	res05	202 Birch St	Parking	3	900	On Campus
6	res06	2250 Wesbrook Mall	Parking		1500	Off Campus
7	res07	2280 Wesbrook Mall	Basketball Court	1	1000	Off Campus
8	res08	231 Alma street	Pool	2	1200	Off Campus
9	res09	144 West 14th Ave	Gym	1	1350	Off Campus
10	res10	3525 West 10th Ave	Good Neighbourhood	4	900	Off Campus

BUILDING

	₽ ADDRESS ÷	□ BUILDINGNAME
1	123 Main St	Marine Drive
2	456 Elm St	Orchard Commons
3	789 Oak St	Totem Park
4	101 Pine St	Ponderosa
5	202 Birch St	Walter Gage
6	2250 Wesbrook Mall	Chaucer Hall1
7	2280 Wesbrook Mall	Chaucer Hall2
8	231 Alma street	Collison Woods
9	144 West 14th Ave	Private Home
10	3525 West 10th Ave	Cambridge Block

FLOORS

			
	□ BUILDINGNAME		\$
1	Marine Drive		10
2	Walter Gage		20
3	Ponderosa		15
4	Orchard Commons		24
5	Totem Park		12
6	Chaucer Hall1		3
7	Chaucer Hall2		2
8	Collison Woods		5
9	Private Home		1
10	Cambridge Block		10

COMMAND	<u>CLASS NAME</u>	<u>LINE NUMBER</u>
INSERT	DatabaseConnectionHandler	105
DELETE	DatabaseConnectionHandler	374
UPDATE	DatabaseConnectionHandler	334
SELECTION	SelectionPanel	88
PROJECTION	ProjectionPanel	53
JOIN	DatabaseConnectionHandler	447
Aggregation with Group By	DatabaseConnectionHandler	473
Aggregation with Having	DatabaseConnectionHandler	504

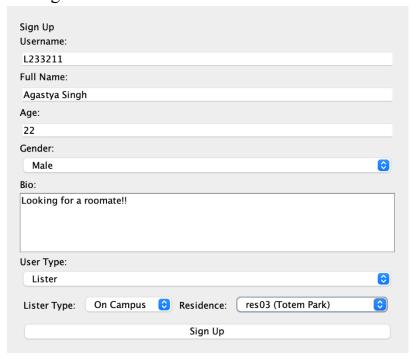
Nested Aggregation with Group By	DatabaseConnectionHandler	534
Division	DatabaseConnectionHandler	560-567

SCREENSHOTS

- 1. <u>INSERT</u> (There are many insertions taking place in the code, for this section we will show the insertions when a new account is created)
- Before



- During

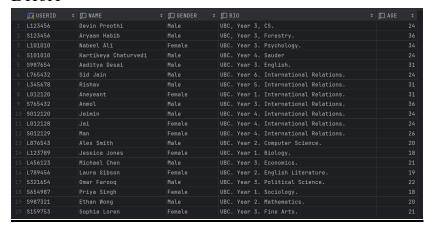


- After

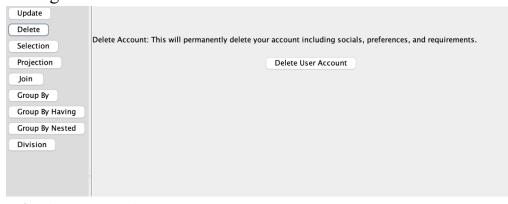
USERID	NAME	GENDER	BIO	AGE
L123456	Devin Proothi	Male	UBC, Year 3, CS.	24
\$123456	Aryaan Habib	Male	UBC, Year 3, Forestry.	36
L101010	Nabeel Ali	Female	UBC. Year 3. Psychology.	34
\$101010	Kartikeya Chaturvedi	Male	UBC. Year 4. Sauder	24
\$987654	Aaditya Desai	Male	UBC. Year 3. English.	31
L765432	Sid Jain	Male	UBC. Year 6. International Re	elations.24
L345678	Rishav	Male	UBC. Year 5. International Re	elations.31
L012120	Aneyeant	Female	UBC. Year 1. International Re	elations.31
\$765432	Anmol	Male	UBC. Year 3. International Re	elations.36
S012120	Jaimin	Male	UBC. Year 4. International Re	elations.34
L012128	Jai	Female	UBC. Year 4. International Re	elations.24
S012129	Man	Female	UBC. Year 4. International Re	elations.26
L876543	Alex Smith	Male	UBC. Year 2. Computer Science	.20
L123789	Jessica Jones	Female	UBC. Year 1. Biology.	18
L456123	Michael Chen	Male	UBC. Year 3. Economics.	21
L789456	Laura Gibson	Female	UBC. Year 2. English Literatu	re.19
S321654	Omar Farooq	Male	UBC. Year 3. Political Science	e.22
\$654987	Priya Singh	Female	UBC. Year 1. Sociology.	18
\$987321	Ethan Wong	Male	UBC. Year 2. Mathematics.	20
\$159753	Sophia Loren	Female	UBC. Year 3. Fine Arts.	21
L233211	Agastya Singh	Male	Looking for a roomate!!	22

2. DELETE

- Before



During



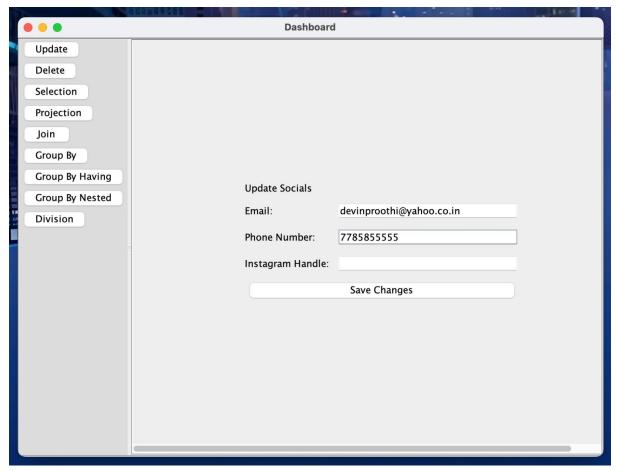
After(not present)

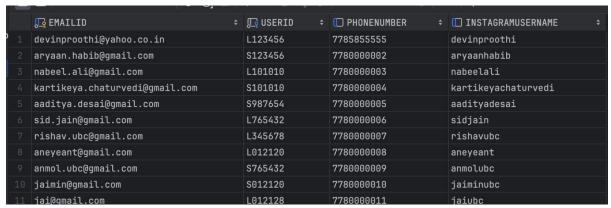
USERID	NAME	GENDER	BIO	AGE
L123456	Devin Proothi	Male	UBC, Year 3, CS.	24
\$123456	Aryaan Habib	Male	UBC, Year 3, Forestry.	36
L101010	Nabeel Ali	Female	UBC. Year 3. Psychology.	34
\$101010	Kartikeya Chaturvedi	Male	UBC. Year 4. Sauder	24
\$987654	Aaditya Desai	Male	UBC. Year 3. English.	31
L765432	Sid Jain	Male	UBC. Year 6. International I	Relations.24
L345678	Rishav	Male	UBC. Year 5. International I	Relations.31
L012120	Aneyeant	Female	UBC. Year 1. International I	Relations.31
\$765432	Anmol	Male	UBC. Year 3. International I	Relations.36
S012120	Jaimin	Male	UBC. Year 4. International I	Relations.34
L012128	Jai	Female	UBC. Year 4. International I	Relations.24
S012129	Man	Female	UBC. Year 4. International I	Relations.26
L876543	Alex Smith	Male	UBC. Year 2. Computer Science	ce.20
L123789	Jessica Jones	Female	UBC. Year 1. Biology.	18
L456123	Michael Chen	Male	UBC. Year 3. Economics.	21
L789456	Laura Gibson	Female	UBC. Year 2. English Litera	ture.19
\$321654	Omar Farooq	Male	UBC. Year 3. Political Scien	nce.22
\$654987	Priya Singh	Female	UBC. Year 1. Sociology.	18
\$987321	Ethan Wong	Male	UBC. Year 2. Mathematics.	20
\$159753	Sophia Loren	Female	UBC. Year 3. Fine Arts.	21

3. UPDATE

- BEFORE

	<u>□</u> EMAILID	‡	<u>∏</u> USERID	‡	PHONENUMBER :	÷	☐ INSTAGRAMUSERNAME
1	devin.proothi@gmail.com		L123456		7780000001		devinproothi
2	aryaan.habib@gmail.com		S123456		7780000002		aryaanhabib
3	nabeel.ali@gmail.com		L101010		7780000003		nabeelali
4	kartikeya.chaturvedi@gmail.com		S101010		7780000004		kartikeyachaturvedi
5	aaditya.desai@gmail.com		S987654		7780000005		aadityadesai
6	sid.jain@gmail.com		L765432		7780000006		sidjain
7	rishav.ubc@gmail.com		L345678		7780000007		rishavubc
8	aneyeant@gmail.com		L012120		7780000008		aneyeant
9	anmol.ubc@gmail.com		S765432		7780000009		anmolubc
10	jaimin@gmail.com		S012120		7780000010		jaiminubc
11	jai@gmail.com		L012128		7780000011		jaiubc
12	man@gmail.com		S012129		7780000012		manubc
13	alex.smith@gmail.com		L876543		7780000013		alexsmithubc
14	jessica.jones@gmail.com		L123789		7780000014		jessicajonesubc
15	michael.chen@gmail.com		L456123		7780000015		michaelchenubc
16	laura.gibson@gmail.com		L789456		7780000016		lauragibsonubc
17	omar.farooq@gmail.com		S321654		7780000017		omarfarooqubc
18	priya.singh@gmail.com		S654987		7780000018		priyasinghubc
19	ethan.wong@gmail.com		S987321		7780000019		ethanwongubc
20	sophia.loren@gmail.com		S159753		7780000020		sophialorenubc



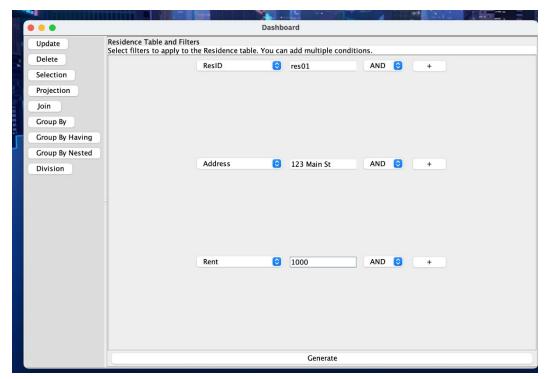


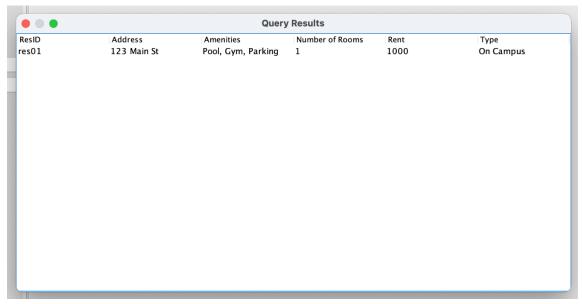
4. SELECTION

- BEFORE

	∏ RESID ÷	□ ADDRESS	☐ AMENITIES ÷	□ NUMBEROFROOMS	☐ RENT ÷	☐ TYPE
1	res01	123 Main St	Pool, Gym, Parking	1	1000	On Campus
2	res02	456 Elm St	Gym, Parking	2	1200	On Campus
3	res03	789 Oak St	Pool, Parking		1500	On Campus
4	res04	101 Pine St	Gym	1	1300	On Campus
5	res05	202 Birch St	Parking	3	900	On Campus
6	res06	2250 Wesbrook Mall	Parking		1500	Off Campus
7	res07	2280 Wesbrook Mall	Basketball Court	1	1000	Off Campus
8	res08	231 Alma street	Pool	2	1200	Off Campus
9	res09	144 West 14th Ave	Gym	1	1350	Off Campus
10	res10	3525 West 10th Ave	Good Neighbourhood	4	900	Off Campus

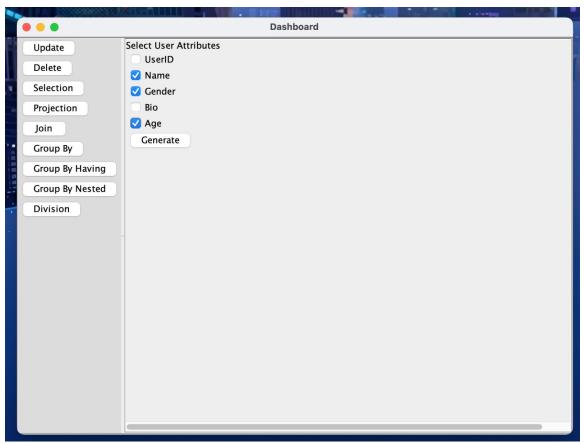
DURING



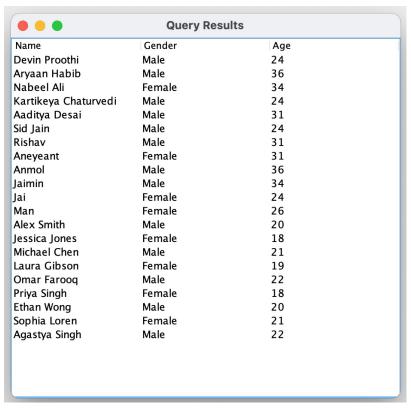


- 5. PROJECTION
- BEFORE

	<u>∏</u> USERID ÷	☐ NAME	☐ GENDER	∏ BIO	\$	∏ AGE	÷
1	L123456	Devin Proothi	Male	UBC, Year 3, CS.			24
2	S123456	Aryaan Habib	Male	UBC, Year 3, Forestry.			36
3	L101010	Nabeel Ali	Female	UBC. Year 3. Psychology.			34
4	S101010	Kartikeya Chaturvedi	Male	UBC. Year 4. Sauder			24
5	S987654	Aaditya Desai	Male	UBC. Year 3. English.			31
6	L765432	Sid Jain	Male	UBC. Year 6. International Relations.			24
7	L345678	Rishav	Male	UBC. Year 5. International Relations.			31
8	L012120	Aneyeant	Female	UBC. Year 1. International Relations.			31
9	\$765432	Anmol	Male	UBC. Year 3. International Relations.			36
10	S012120	Jaimin	Male	UBC. Year 4. International Relations.			34
11	L012128	Jai	Female	UBC. Year 4. International Relations.			24
12	S012129	Man	Female	UBC. Year 4. International Relations.			26
13	L876543	Alex Smith	Male	UBC. Year 2. Computer Science.			20
14	L123789	Jessica Jones	Female	UBC. Year 1. Biology.			18
15	L456123	Michael Chen	Male	UBC. Year 3. Economics.			21
16	L789456	Laura Gibson	Female	UBC. Year 2. English Literature.			19
17	\$321654	Omar Farooq	Male	UBC. Year 3. Political Science.			22
18	S654987	Priya Singh	Female	UBC. Year 1. Sociology.			18
19	S987321	Ethan Wong	Male	UBC. Year 2. Mathematics.			20
20	\$159753	Sophia Loren	Female	UBC. Year 3. Fine Arts.			21



- AFTER



6. JOIN

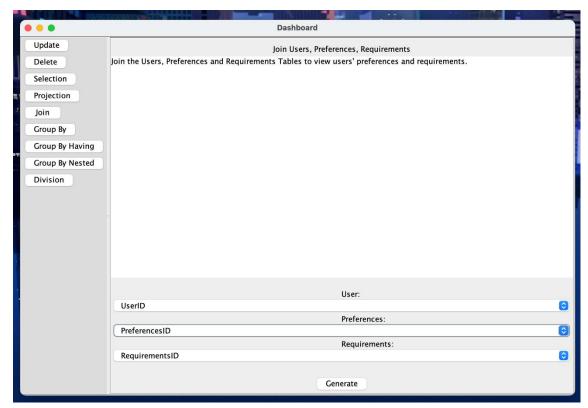
- BEFORE

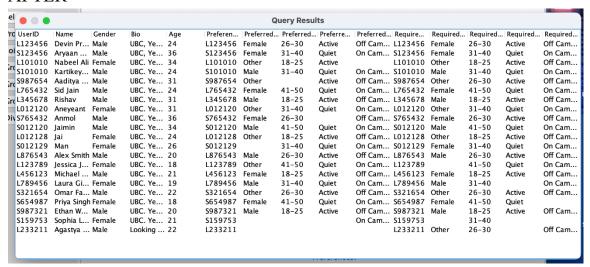
	∏ USERID :	; ∏ NAME	‡ ∭ G	ENDER 4	: IDI	310			∏ AGE	\$
1	L123456	Devin Proothi	Male		UBC	, Year	3,	CS.		24
2	S123456	Aryaan Habib	Male		UBC	, Year	3,	Forestry.		36
3	L101010	Nabeel Ali	Fema	le	UBC	. Year	3.	Psychology.		34
4	S101010	Kartikeya Chaturvedi	Male		UBC	. Year	4.	Sauder		24
5	\$987654	Aaditya Desai	Male		UBC	. Year	3.	English.		31
6	L765432	Sid Jain	Male		UBC	. Year	6.	International Relations.		24
7	L345678	Rishav	Male		UBC	. Year		International Relations.		31
8	L012120	Aneyeant	Fema	le	UBC	. Year	1.	International Relations.		31
9	\$765432	Anmol	Male		UBC	. Year	3.	International Relations.		36
10	S012120	Jaimin	Male		UBC	. Year	4.	International Relations.		34
11	L012128	Jai	Fema	le	UBC	. Year		International Relations.		24
12	S012129	Man	Fema	le	UBC	. Year		International Relations.		26
13	L876543	Alex Smith	Male		UBC	. Year	2.	Computer Science.		20
14	L123789	Jessica Jones	Fema	le	UBC	. Year	1.	Biology.		18
15	L456123	Michael Chen	Male		UBC	. Year	3.	Economics.		21
16	L789456	Laura Gibson	Fema	le	UBC	. Year	2.	English Literature.		19
17	\$321654	Omar Farooq	Male		UBC	. Year	3.	Political Science.		22
18	S654987	Priya Singh	Fema	le	UBC	. Year	1.	Sociology.		18
19	S987321	Ethan Wong	Male		UBC	. Year	2.	Mathematics.		20
20	\$159753	Sophia Loren	Fema	le	UBC	. Year	3.	Fine Arts.		21

-

	PREFERENCESID ÷	□ PREFERREDGENDER	□ PREFERREDAGERANGE	□ PREFERREDLIFESTYLE	□ PREFERREDLOCATION
1	L123456	Female	26-30	Active	Off Campus
2	S123456	Female	31-40	Quiet	On Campus
3	L101010	Other	18-25	Active	<null></null>
4	\$101010	Male	31-40	Quiet	On Campus
5	\$987654	Other		Active	Off Campus
6	L765432	Female	41-50	Quiet	On Campus
7	L345678	Male	18-25	Active	Off Campus
8	L012120	Other	31-40	Quiet	On Campus
9	\$765432	Female	26-30		Off Campus
10	S012120	Male	41-50	Quiet	On Campus
11	L012128	Other	18-25	Active	Off Campus
12	S012129		31-40	Quiet	On Campus
13	L876543	Male	26-30	Active	Off Campus
14	L123789	Other	41-50	Quiet	On Campus
15	L456123	Female	18-25	Active	Off Campus
16	L789456	Male	31-40	Quiet	On Campus
17	S321654	Other	26-30	Active	Off Campus
18	\$654987	Female	41-50	Quiet	On Campus
19	\$987321	Male	18-25	Active	Off Campus
20	\$159753				On Campus

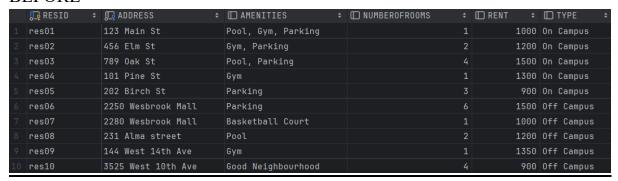
	☐ REQUIREMENTID \$	☐ REQUIREDGENDER	□ REQUIREDAGERANGE	☐ REQUIREDLIFESTYLE	☐ REQUIREDLOCATION ÷
1	L123456	Female	26-30	Active	Off Campus
2	\$123456	Female	31-40	Quiet	On Campus
3	L101010	Other	18-25	Active	Off Campus
4	\$101010	Male	31-40	Quiet	On Campus
5	S987654	0ther	26-30	Active	Off Campus
6	L765432	Female	41-50	Quiet	On Campus
7	L345678	Male	18-25	Active	Off Campus
8	L012120	0ther	31-40	Quiet	On Campus
9	\$765432	Female	26-30	Active	Off Campus
10	S012120	Male	41-50	Quiet	On Campus
11	L012128	Other	18-25	Active	Off Campus
12	S012129	Female	31-40	Quiet	On Campus
13	L876543	Male	26-30	Active	Off Campus
14	L123789		41-50	Quiet	On Campus
15	L456123	Female	18-25	Active	Off Campus
16	L789456	Male	31-40		On Campus
17	\$321654	0ther	26-30	Active	Off Campus
18	\$654987	Female	41-50	Quiet	<null></null>
19	\$987321	Male	18-25	Active	Off Campus
20	S159753		31-40		<null></null>



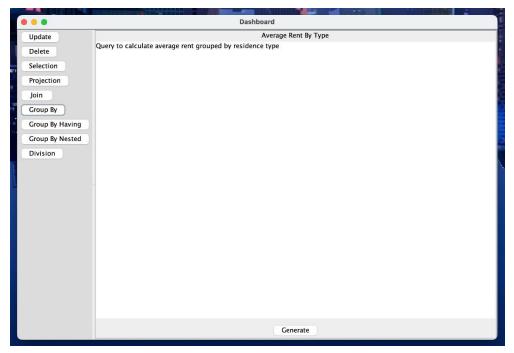


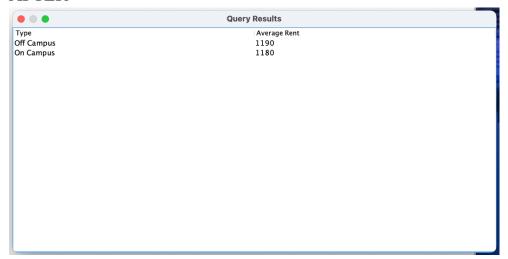
7. AGGREGATION (1)

BEFORE



DURING



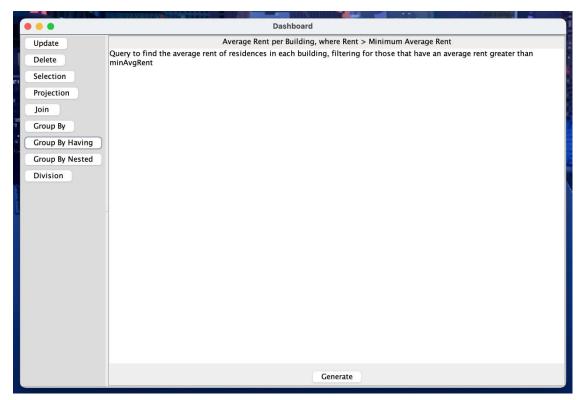


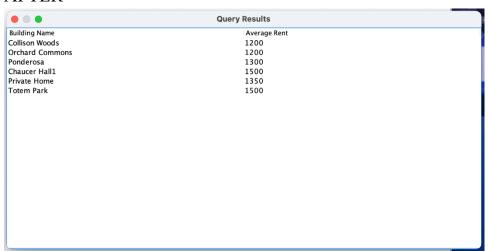
- 8. AGGREGATION (2)
- BEFORE

	∏ RESID ÷	□ ADDRESS	☐ AMENITIES ÷	□ NUMBEROFROOMS	☐ RENT ÷	☐ TYPE
1	res01	123 Main St	Pool, Gym, Parking	1	1000	On Campus
2	res02	456 Elm St	Gym, Parking	2	1200	On Campus
3	res03	789 Oak St	Pool, Parking		1500	On Campus
4	res04	101 Pine St	Gym	1	1300	On Campus
5	res05	202 Birch St	Parking	3	900	On Campus
6	res06	2250 Wesbrook Mall	Parking		1500	Off Campus
7	res07	2280 Wesbrook Mall	Basketball Court	1	1000	Off Campus
8	res08	231 Alma street	Pool	2	1200	Off Campus
9	res09	144 West 14th Ave	Gym	1	1350	Off Campus
10	res10	3525 West 10th Ave	Good Neighbourhood	4	900	Off Campus

	□ ADDRESS	☐ BUILDINGNAME :
1	123 Main St	Marine Drive
2	456 Elm St	Orchard Commons
3	789 Oak St	Totem Park
4	101 Pine St	Ponderosa
5	202 Birch St	Walter Gage
6	2250 Wesbrook Mall	Chaucer Hall1
7	2280 Wesbrook Mall	Chaucer Hall2
8	231 Alma street	Collison Woods
9	144 West 14th Ave	Private Home
10	3525 West 10th Ave	Cambridge Block

	□ BUILDINGNAME	‡	□ NUMBEROFFLOORS	\$
1	Marine Drive			10
2	Walter Gage			20
3	Ponderosa			15
4	Orchard Commons			24
5	Totem Park			12
6	Chaucer Hall1			3
7	Chaucer Hall2			2
8	Collison Woods			5
9	Private Home			1
10	Cambridge Block			10



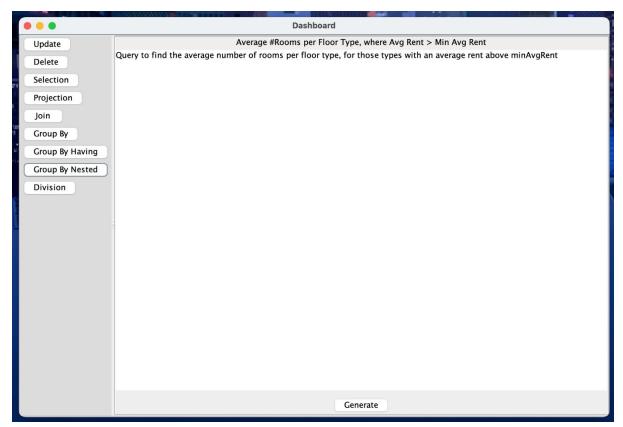


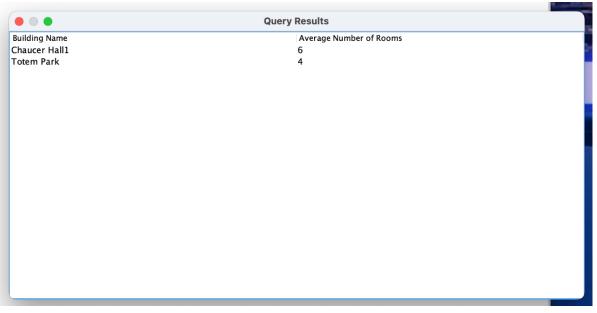
- 9. AGGREGATION (3)
- BEFORE

	∏ RESID ÷	□ ADDRESS	☐ AMENITIES ÷	□ NUMBEROFROOMS	☐ RENT ÷	☐ TYPE
1	res01	123 Main St	Pool, Gym, Parking	1	1000	On Campus
2	res02	456 Elm St	Gym, Parking	2	1200	On Campus
3	res03	789 Oak St	Pool, Parking		1500	On Campus
4	res04	101 Pine St	Gym	1	1300	On Campus
5	res05	202 Birch St	Parking	3	900	On Campus
6	res06	2250 Wesbrook Mall	Parking		1500	Off Campus
7	res07	2280 Wesbrook Mall	Basketball Court	1	1000	Off Campus
8	res08	231 Alma street	Pool	2	1200	Off Campus
9	res09	144 West 14th Ave	Gym	1	1350	Off Campus
10	res10	3525 West 10th Ave	Good Neighbourhood	4	900	Off Campus

	□ ADDRESS	☐ BUILDINGNAME :
1	123 Main St	Marine Drive
2	456 Elm St	Orchard Commons
3	789 Oak St	Totem Park
4	101 Pine St	Ponderosa
5	202 Birch St	Walter Gage
6	2250 Wesbrook Mall	Chaucer Hall1
7	2280 Wesbrook Mall	Chaucer Hall2
8	231 Alma street	Collison Woods
9	144 West 14th Ave	Private Home
10	3525 West 10th Ave	Cambridge Block

	□ BUILDINGNAME	‡	□ NUMBEROFFLOORS	\$
1	Marine Drive			10
2	Walter Gage			20
3	Ponderosa			15
4	Orchard Commons			24
5	Totem Park			12
6	Chaucer Hall1			3
7	Chaucer Hall2			2
8	Collison Woods			5
9	Private Home			1
10	Cambridge Block			10





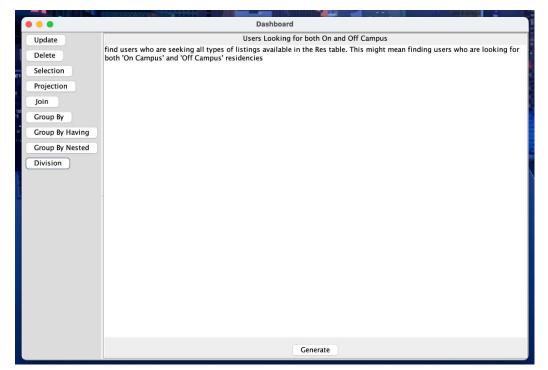
10. Division

- BEFORE

	∏ RESID ÷	□ ADDRESS	☐ AMENITIES ÷	□ NUMBEROFROOMS	☐ RENT ÷	☐ TYPE
1	res01	123 Main St	Pool, Gym, Parking	1	1000	On Campus
2	res02	456 Elm St	Gym, Parking	2	1200	On Campus
3	res03	789 Oak St	Pool, Parking		1500	On Campus
4	res04	101 Pine St	Gym	1	1300	On Campus
5	res05	202 Birch St	Parking	3	900	On Campus
6	res06	2250 Wesbrook Mall	Parking		1500	Off Campus
7	res07	2280 Wesbrook Mall	Basketball Court	1	1000	Off Campus
8	res08	231 Alma street	Pool	2	1200	Off Campus
9	res09	144 West 14th Ave	Gym	1	1350	Off Campus
10	res10	3525 West 10th Ave	Good Neighbourhood	4	900	Off Campus

	□ ADDRESS	☐ BUILDINGNAME :
1	123 Main St	Marine Drive
2	456 Elm St	Orchard Commons
3	789 Oak St	Totem Park
4	101 Pine St	Ponderosa
5	202 Birch St	Walter Gage
6	2250 Wesbrook Mall	Chaucer Hall1
7	2280 Wesbrook Mall	Chaucer Hall2
8	231 Alma street	Collison Woods
9	144 West 14th Ave	Private Home
10	3525 West 10th Ave	Cambridge Block

	□ BUILDINGNAME	‡	□ NUMBEROFFLOORS	\$
1	Marine Drive			10
2	Walter Gage			20
3	Ponderosa			15
4	Orchard Commons			24
5	Totem Park			12
6	Chaucer Hall1			3
7	Chaucer Hall2			2
8	Collison Woods			5
9	Private Home			1
10	Cambridge Block			10



- AFTER (our database is not big enough to give a result for this query)

