

CPSC 304 Project Cover Page

Milestone #: 4

Date: Nov 30, 2023

Group Number: 30

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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

1. Your completed cover page, as usual.
2. A single SQL script that can be used to create all the tables and data in the database. If you are using multiple scripts while developing, ensure you concatenate them and hand in only a SINGLE SQL script.

Path: project/db-setup.sql

These are assertions we did not add to oracle but should have been added:

- PostalCode_Location is referenced by at least one Payment Information
- Project has at least one associated Payment Tier

3. A PDF file containing:

- a. A short description of the final project, and what it accomplished.

Our final project models a crowdfunding website. As it stands, the website allows users to login, view a list of active projects on the main page, and manage their payment methods. Users can also search for any type of project, see who has donated to each project, and view the top contributors on the platform. Regarding project management, organizations can see the posts and comments made on their project pages and have the ability to delete them.

- b. A description of how your final schema differed from the schema you turned in. i. If the final schema differed, explain why. Note that turning in a final schema that's different from what you planned is fine, we just want to know what changed and why.

We changed the table PaymentInformation from PaymentInformation(CCNumber, CVV, Address, **PostalCode**) to PaymentInformation(CCNumber, **IUsername**, CVV, Address, **PostalCode**) and the table Individual(Username, **PaymentInfo**, DateOfBirth, FirstName, LastName) to Individual(Username, DateOfBirth, FirstName, LastName). This basically flipped the one to many relationship so that a PaymentInfo can only be associated with one Individual and an Individual can now have more than one payment info. This was done in order to meet the requirements for the update query.

- c. A copy of the schema and screenshots that show what data is present in each relation after the SQL script from item #2 is run.

- i. Do not use DDL statements for this deliverable. List the relational schemas with the primary key attributes underlined and foreign keys bolded. For example, Student(sid, name, **dob**).
 - ii. You can complete this deliverable with screenshots from SQL Plus or create a representation of your relational instances through a spreadsheet program. No matter what you use, be sure to clearly label which relation a given instance refers to.

Account(Username, Password (not null), CreationDate, Email (unique, not null))

USERNAME	PASSWORD	CREATIONDATE	EMAIL
cmcdavid1	\$2a\$10\$1luJ2D3Zd59SGvD1YsgHu.Nlq	2023-03-15T08:00:00.000Z	cmcdavid@gmail.com
ntesla12	\$2a\$10\$4bLtdJGRkOk3nThXVXnln.hJc	2023-04-22T08:00:00.000Z	ntesla@gmail.com
aeinstein30	\$2a\$10\$25WtfUkm4WNLxp2SaTajk.19i	2023-06-10T08:00:00.000Z	aeinstein@gmail.com
pshelby1	\$2a\$10\$BSO5cwDvoAsq6B1Zkqk57uYl	2023-07-29T08:00:00.000Z	pshelby@gmail.com
tshels	\$2a\$10\$YqqVWhpDjuXJ5dQCnqdeJeD	2023-08-18T08:00:00.000Z	tshelby@gmail.com
ashebs12	\$2a\$10\$g5aT871jbAwAiuj96GPuKe8dA	2023-08-18T08:00:00.000Z	artshelby@gmail.com
nomoney10	\$2a\$10\$i9jhHHx9pczz/cCfzDaOeYnui	2023-08-20T08:00:00.000Z	igotnomoney@gmail.com
wildlife	\$2a\$10\$SjwiWKGlqgdp98aFw5HkTuV7	2023-01-18T08:00:00.000Z	wlsaver@gmail.com
globewarm	\$2a\$10\$3qTBnT5jpvhfak6LnUql2eN88	2023-04-12T08:00:00.000Z	gwarm@gmail.com
ubcneedsmoney	\$2a\$10\$k5sRUA5B.6fsWuwzHmG10.hf	2023-10-05T08:00:00.000Z	ubc@gmail.com
sfuneedsmoney	\$2a\$10\$gXEuvQXjOtZYoU0vg31bcOuS	2023-10-12T08:00:00.000Z	sfu@gmail.com
fundbenslife	\$2a\$10\$LRXBpN5tcRrHvMgviJ76N.MV	2023-07-12T08:00:00.000Z	fundben@gmail.com

PostalCode_Location(PostalCode, City (not null), Province (not null))

POSTALCODE	CITY	PROVINCE
M5H1W7	Toronto	ON
H2X1L4	Montreal	QC
V6Z1K7	Vancouver	BC
E1C4P9	Moncton	NB
L5N2X2	Mississauga	ON

Individual(Username, DateOfBirth, FirstName, LastName)

USERNAME	DATEOFBIRTH	FIRSTNAME	LASTNAME
cmcdavid1	1990-05-15T08:00:00.000Z	Connor	McDavid
ntesla12	1950-01-12T08:00:00.000Z	Nikola	Tesla
aeinstein30	1960-11-20T08:00:00.000Z	Albert	Einstein
tshebs	1900-02-21T08:00:00.000Z	Tommy	Shelby
ashebs12	1895-05-10T08:00:00.000Z	Arthur	Shelby
pshelby1	1894-10-11T08:00:00.000Z	Polly	Shelby
nomoney10	1970-11-06T08:00:00.000Z	Dan	NoMoney

PaymentInformation(CCNumber, IUsername (not null), CVV (not null), Address (not null), PostalCode (not null))

CCNUMBER	IUSERNAME	CVV	ADDRESS	POSTALCODE
1111222233334444	cmcdavid1	123	123 Main St	M5H1W7
2222333344445555	ntesla12	456	456 Elm St	H2X1L4
3333444455556666	aeinstein30	789	789 Oak St	V6Z1K7
4444555566667777	pshelby1	234	234 Pine St	E1C4P9
555566677788888	tshebs	567	567 Cedar St	L5N2X2
1234123412341234	ashebs12	111	111 Cedar St	L5N2X2

Organization(Username, FoundedDate, OrgName (unique, not null))

USERNAME	FOUNDEDDATE	ORGNAME
wildlife	2000-08-15T08:00:00.000Z	Wildlife Preservation Inc
globewarm	1950-10-11T08:00:00.000Z	Global Warming is Real
ubcreedsmoney	2023-10-11T08:00:00.000Z	Give UBC Money Please
sfuneedsmoney	2023-10-11T08:00:00.000Z	Give SFU Money Please
fundbenslife	2023-10-11T08:00:00.000Z	Ben Wants Money

OrganizationCreatesProject(ProjectName, OUsername (not null), Description, Balance (not null))

PROJECTNAME	OUSERNAME	DESCRIPTION	BALANCE
Help Pandas	wildlife	Pandas are going extinct. Send money.	100000
Help Lions	wildlife	Lions are going extinct. Send money.	3000
Help Snakes	wildlife	Snakes are going extinct. Send money.	400
Help Zebras	wildlife	Zebras are going extinct. Send money.	1610
Help Fishies	wildlife	fishies are going extinct. Send money.	8020
Stop Global Warming	globewarm	Hot in Herre by Nelly	10
Open more CPSC110 sections	ubcreedsmoney	Trust the natural recursion	300
Open more CPSC210 sections	ubcreedsmoney	Java	40
Bens Fund	fundbenslife	Ben needs money.	0

OrganizationCreatesPost(PostId, OUsername (not null), ProjectName (not null), Content (not null), ImageURL, Timestamp)

POSTID	OUSERNAME	PROJECTNAME	CONTENT	IMAGEURL	TIMESTAMP
1	wildlife	Help Pandas	Donate to help our pandas	https://i.ebayimg.com/imag	2023-11-30T23:20:07.479Z
2	globewarm	Stop Global Warming	Time is running out.	https://atmos.earth/wp-cor	2023-11-30T23:20:07.487Z
3	globewarm	Stop Global Warming	For a green future.	https://cdn.wionews.com/si	2023-11-30T23:20:07.494Z
4	ubcreedsmoney	Open more CPSC110 sectic	Overcrowded CPSC Lecture	https://i.cbc.ca/1.4826104.	2023-11-30T23:20:07.501Z
5	fundbenslife	Bens Fund	Help me get to class.	https://m.media-amazon.cc	2023-11-30T23:20:07.508Z
6	wildlife	Help Pandas	Friendly reminder to donate	https://m.media-amazon.cc	2023-11-30T23:20:07.515Z

Account_writes_Comment_on_Post(CommentID, Username (not null), PostID (not null), Timestamp, Content (not null))

COMMENTID	USERNAME	POSTID	TIMESTAMP	CONTENT
1	tshebs	5	2023-11-30T23:20:07.531Z	Were gonna get ye that red bike and we hope t
2	cmcdavid1	4	2023-11-30T23:20:07.538Z	No mean to chirp but thats a crazy
3	wildlife	3	2023-11-30T23:20:07.545Z	Glad to see others doing something about the
4	ashebs12	2	2023-11-30T23:20:07.553Z	No way
5	ashebs12	1	2023-11-30T23:20:07.560Z	I love pandas
6	tshebs	1	2023-11-30T23:20:07.567Z	Pandas remind me of the dead
7	wildlife	1	2023-11-30T23:20:07.574Z	Glad some of you like pandas. i really like them
8	fundbenslife	1	2023-11-30T23:20:07.583Z	Nah you should donate to me so i can buy a ne
9	fundbenslife	1	2023-11-30T23:20:07.629Z	That is selfish of you
10	cmcdavid1	1	2023-11-30T23:20:07.636Z	Buy me a new twig bud
11	ashebs12	5	2023-11-30T23:20:07.642Z	Ah a nice racing red
12	ashebs12	6	2023-11-30T23:20:07.651Z	Jack black isnt a panda
13	ashebs12	6	2023-11-30T23:20:07.657Z	Yeah he is
14	cmcdavid1	6	2023-11-30T23:20:07.664Z	Oilers suck right now
15	cmcdavid1	1	2023-11-30T23:20:07.671Z	I dislike the oilers
16	cmcdavid1	2	2023-11-30T23:20:07.678Z	I dislike the oilers
17	cmcdavid1	3	2023-11-30T23:20:07.685Z	I dislike the oilers
18	cmcdavid1	4	2023-11-30T23:20:07.692Z	I dislike the oilers
19	cmcdavid1	5	2023-11-30T23:20:07.699Z	I dislike the oilers

Individual_makes_Contribution(IUsername, ProjectName (not null), Amount (not null), Timestamp)

IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
cmcdavid1	Help Pandas	97	2023-11-30T23:20:07.714Z
cmcdavid1	Help Lions	97	2023-11-30T23:20:07.721Z
cmcdavid1	Help Snakes	97	2023-11-30T23:20:07.730Z
cmcdavid1	Help Zebras	97	2023-11-30T23:20:07.735Z
cmcdavid1	Help Fishies	97	2023-11-30T23:20:07.742Z
cmcdavid1	Stop Global Warming	97	2023-11-30T23:20:07.748Z
cmcdavid1	Open more CPSC110 sections	97	2023-11-30T23:20:07.975Z
cmcdavid1	Open more CPSC210 sections	97	2023-11-30T23:20:07.982Z
ntesla12	Help Pandas	15	2023-11-30T23:20:07.988Z
ntesla12	Stop Global Warming	230	2023-11-30T23:20:07.995Z
ntesla12	Help Lions	150	2023-11-30T23:20:08.001Z
ntesla12	Help Fishies	2000	2023-11-30T23:20:08.007Z
ntesla12	Help Fishies	1	2023-11-30T23:20:08.014Z
ntesla12	Help Fishies	2	2023-11-30T23:20:08.020Z
ntesla12	Help Fishies	3	2023-11-30T23:20:08.026Z
aeinstein30	Help Lions	100	2023-11-30T23:20:08.032Z
aeinstein30	Help Zebras	50	2023-11-30T23:20:08.062Z
aeinstein30	Stop Global Warming	50	2023-11-30T23:20:08.069Z
aeinstein30	Stop Global Warming	10	2023-11-30T23:20:08.075Z
aeinstein30	Stop Global Warming	42	2023-11-30T23:20:08.082Z
aeinstein30	Stop Global Warming	100	2023-11-30T23:20:08.089Z

tshebs	Help Pandas	68	2023-11-30T23:20:08.103Z
tshebs	Help Pandas	60	2023-11-30T23:20:08.109Z
tshebs	Bens Fund	7	2023-11-30T23:20:08.116Z
tshebs	Bens Fund	1	2023-11-30T23:20:08.122Z
tshebs	Bens Fund	2	2023-11-30T23:20:08.131Z
tshebs	Help Lions	1	2023-11-30T23:20:08.138Z
tshebs	Help Lions	1	2023-11-30T23:20:08.143Z
tshebs	Help Lions	1	2023-11-30T23:20:08.147Z
tshebs	Help Lions	1	2023-11-30T23:20:08.152Z
tshebs	Help Lions	1	2023-11-30T23:20:08.157Z
tshebs	Help Lions	1	2023-11-30T23:20:08.162Z
tshebs	Help Lions	1	2023-11-30T23:20:08.166Z
tshebs	Help Zebras	2	2023-11-30T23:20:08.174Z
tshebs	Help Lions	1	2023-11-30T23:20:08.181Z
tshebs	Help Lions	5	2023-11-30T23:20:08.187Z
ashebs12	Open more CPSC110 sections	100	2023-11-30T23:20:08.193Z
ashebs12	Help Snakes	500	2023-11-30T23:20:08.201Z
ashebs12	Help Fishies	10	2023-11-30T23:20:08.209Z
pshelby1	Help Snakes	58	2023-11-30T23:20:08.237Z
pshelby1	Help Snakes	20	2023-11-30T23:20:08.243Z
pshelby1	Help Snakes	1	2023-11-30T23:20:08.250Z
pshelby1	Help Snakes	100	2023-11-30T23:20:08.258Z
pshelby1	Help Fishies	10	2023-11-30T23:20:08.264Z
pshelby1	Help Fishies	10	2023-11-30T23:20:08.269Z
pshelby1	Help Fishies	20	2023-11-30T23:20:08.277Z

Reward(RewardName, OUsername)

OUSERNAME	REWARDNAME
wildlife	T-Shirt
wildlife	Water Bottle
globewarm	Discount Code
ubcneedsmoney	Tesla Model S
fundbenslife	CEOs Favorite Hat

Individual_receives_Reward(**RewardName**, **IUsername**)

REWARDNAME	IUSERNAME
CEOs Favorite Hat	tshebs
Discount Code	aeinstein30
T-Shirt	tshebs
Tesla Model S	ashebs12
Water Bottle	ntesla12

PaymentTier(**PayTierID**, **ProjectName** (not null), **OUUsername** (not null), **Description**, **minAmount** (not null), **maxAmount** (not null))

PAYTIERID	PROJECTNAME	OUUSERNAME	DESCRIPTION	MINAMOUNT	MAXAMOUNT
1	Help Pandas	wildlife	Donate 50\$ and receive a t-	50	100
2	Help Pandas	wildlife	Donate 100\$ and receive a v	100	250
3	Stop Global Warming	globewarm	Donate 10\$ and receive a di	10	10
4	Open more CPSC210 sectio	ubcneedsmoney	Donate >=100000\$ and rece	100000	1000000
5	Bens Fund	fundbenslife	Donate enough money for a	5	1000000

PaymentTier_has_Reward(**PayTierID**, **RewardName**)

PAYTIERID	REWARDNAME
1	T-Shirt
2	Water Bottle
3	Discount Code
4	Tesla Model S
5	CEOs Favorite Hat

d. A list of all SQL queries used and where it can be found in the code (i.e., file name and line number(s)). For SQL query requirements, check the rubric listed on Canvas for Milestone 4.

Query	project/queries/fileName	Code Line Numbers
Insert	payment.js	53-79
Delete	posts.js	37
Update	payment.js	110-123
Selection	selection.js	4-64
Projection	projection.js	31-36
Join	join.js	3-18
Aggregation with GROUP BY	aggregation.js	22-35
Aggregation with HAVING	aggregation-having.js	3-17
Nested Aggregation with GROUP BY	aggregation.js	5-20
Division	organization.js	51-58

e. Screenshots demonstrating the functionality of each query using the GUI. We want to see a before/during/after progression of events. For example, the before screenshot would be what data is in the table before you run the query, the during screenshot(s) is how the query is triggered using the GUI, and the after screenshot is what data is in your table afterwards. Please label each set of screenshots with the name of the query it is meant to address (e.g., “Insert Operation”).

i. You need only to include screenshots for the required queries – if you implemented more than what was required, screenshots are not needed for those extra queries. 4. Lastly, include a README.txt file if there’s anything you want to add that’s not included in your PDF file.

Query Screenshots

Insert:

- Before

	CCNUMBER	IUSERNAME	CVV	ADDRESS	POSTALCODE
1	1111222233334444	cmcdavid1	123	123 Main St	M5H1W7
2	2222333344445555	ntesla12	456	456 Elm St	H2X1L4
3	333344455556666	aeinstein30	789	789 Oak St	V6Z1K7
4	4444555566667777	pshelby1	234	234 Pine St	E1C4P9
5	5555666777788888	tshebs	567	567 Cedar St	L5N2X2
6	1234123412341234	ashebs12	111	111 Cedar St	L5N2X2

	POSTALCODE	CITY	PROVINCE
1	M5H1W7	Toronto	ON
2	H2X1L4	Montreal	QC
3	V6Z1K7	Vancouver	BC
4	E1C4P9	Moncton	NB
5	L5N2X2	Mississauga	ON

- During

Payment Information

Existing Credit Cards

CCNumber: 1111222233334444

CVV: 123

Address: 123 Main St

Postal Code: M5H1W7

City: Toronto

Province: ON

Modify

Add a New Credit Card

Credit Card Number:

CVV:

Address:

PostalCode:

City:

Province:

Add Payment Info

- After

The screenshot shows two database tables in Oracle Database SQL Developer:

ORA_AFENTO.PAYMENTINFORMATION

	CCNUMBER	IUSERNAME	CVV	ADDRESS	POSTALCODE
1	1111222233334444	cmcdavid1	123	123 Main St	M5H1W7
2	2222333344445555	ntesla12	456	456 Elm St	H2X1L4
3	333344455556666	aeinstein30	789	789 Oak St	V6Z1K7
4	4444555566667777	pshelby1	234	234 Pine St	E1C4P9
5	5555666777788888	tshebs	567	567 Cedar St	L5N2X2
6	1234123412341234	ashebs12	111	111 Cedar St	L5N2X2
7	1234432112344321	cmcdavid1	333	4000 Hudson	ABC123

ORA_AFENTO.POSTALCODE_LOCATION

	POSTALCODE	CITY	PROVINCE
1	M5H1W7	Toronto	ON
2	H2X1L4	Montreal	QC
3	V6Z1K7	Vancouver	BC
4	E1C4P9	Moncton	NB
5	L5N2X2	Mississauga	ON
6	ABC123	Vancouver	BC

Delete:

- Before (post and associated comments):

The screenshot shows two database tables in Oracle Database SQL Developer:

ORA_AFENTO.ORGANIZATION_CREATES_POST

	POSTID	USERNAME	PROJECTNAME	CONTENT	IMAGEURL	TIMESTAMP
1	1	wildlife	Help Pandas	Donate to help our pandas out!	https://i.ebayimg.com/images/g/770AA0SwmYFjG-6w/s-l1600.jpg	2023-12-01 14:45:49.931464

ORA_AFENTO.ACCOUNT_W...RITES_COMMENT_ON_POST

	COMMENTID	USERNAME	POSTID	TIMESTAMP	CONTENT
1	5	ashebs12	1	2023-12-01 14:45:50.232788	I love pandas
2	6	tshebs	1	2023-12-01 14:45:50.243170	Pandas remind me of the dead
3	7	wildlife	1	2023-12-01 14:45:50.263445	Glad some of you like pandas. i really like them a lo...
4	8	fundbenslife	1	2023-12-01 14:45:50.275336	Nah you should donate to me so i can buy a new laptop
5	9	fundbenslife	1	2023-12-01 14:45:50.318027	That is selfish of you
6	10	cmcdavid1	1	2023-12-01 14:45:50.328184	Buy me a new twig bud
7	15	cmcdavid1	1	2023-12-01 14:45:50.431672	I dislike the oilers

- During (click 'delete post'):

Welcome Projects Profile Organizations See Project Top Recurring
Everything Donors Searcher Contributors Contributors

Project: Help Pandas

Organization: wildlife

Pandas are going extinct. Send money.

Current balance: 100000

Donate 50\$ and receive a t-shirt

[Donate](#)

Donate 100\$ and receive a water bottle

[Donate](#)

Posts:

Posted at: 2023-11-30T22:50:02.280Z [Delete post](#)

Donate to help our pandas out!



[Show Comments](#)

Posted at: 2023-11-30T22:50:02.334Z [Delete post](#)

Friendly reminder to donate to help some pandas!



- After (post and associated comments removed; searching for postId = 1 here):

The image shows two separate database table interfaces side-by-side.

Top Table: ORA_AFENTO.ORGANIZATION_CREATES_POST

- Columns: POSTID, USERNAME, PROJECTNAME, CONTENT, IMAGEURL
- Row count: 0 rows

Bottom Table: ORA_AFENTO.ACCT_W...RITES_COMMENT_ON_POST

- Columns: COMMENTID, USERNAME, POSTID, TIMESTAMP, CONTENT
- Row count: 0 rows

Update:

- Before:

The image shows two database table interfaces side-by-side.

Left Table: ORA_AFENTO.PAYMENTINFORMATION

- Columns: CCNUMBER, IUSERNAME, CVV, ADDRESS, POSTALCODE
- Row count: 7 rows
- Data:

	CCNUMBER	IUSERNAME	CVV	ADDRESS	POSTALCODE
1	1111222233334444	cmcdavid1	123	123 Main St	M5H1W7
2	2222333344445555	ntesla12	456	456 Elm St	H2X1L4
3	333344455556666	aeinstein30	789	789 Oak St	V6Z1K7
4	4444555566667777	pshelby1	234	234 Pine St	E1C4P9
5	5555666777788888	tshebs	567	567 Cedar St	L5N2X2
6	1234123412341234	ashebs12	111	111 Cedar St	L5N2X2
7	1234432112344321	cmcdavid1	333	4000 Hudson	ABC123

Right Table: ORA_AFENTO.POSTALCODE_LOCATION

- Columns: POSTALCODE, CITY, PROVINCE
- Row count: 6 rows
- Data:

	POSTALCODE	CITY	PROVINCE
1	M5H1W7	Toronto	ON
2	H2X1L4	Montreal	QC
3	V6Z1K7	Vancouver	BC
4	E1C4P9	Moncton	NB
5	L5N2X2	Mississauga	ON
6	ABC123	Vancouver	BC

- During (signed in as cmcdavid1)

Payment Information

Existing Credit Cards

1234432112344321
 333 ->
 4000 Hudson ->
 ABC123 ->
 Vancouver ->
 BC ->

Confirm

CCNumber: 1111222233334444
 CVV: 123
 Address: 123 Main St
 Postal Code: M5H1W7
 City: Toronto
 Province: ON

Modify

- After

Output ORA_AFENTO.PAYMENTINFORMATION ×

6 rows

	CCNUMBER	IUSERNAME	CVV	ADDRESS	POSTALCODE
1	1111222233334444	cmcdavid1	111	4444 no3 road	ABC342
2	2222333344445555	ntesla12	456	456 Elm St	H2X1L4
3	3333444455556666	aeinstein30	789	789 Oak St	V6Z1K7
4	4444555566667777	pshelby1	234	234 Pine St	E1C4P9
5	5555666777788888	tshebs	567	567 Cedar St	L5N2X2
6	1234123412341234	ashebs12	111	111 Cedar St	L5N2X2

Output ORA_AFENTO.POSTALCODE_LOCATION

	POSTALCODE	CITY	PROVINCE
1	ABC342	Richmond	BC
2	M5H1W7	Toronto	ON
3	H2X1L4	Montreal	QC
4	V6Z1K7	Vancouver	BC
5	E1C4P9	Moncton	NB
6	L5N2X2	Mississauga	ON

Selection:

- Before

Output ORA_AFENTO.ORGANIZATION_CREATES_PROJECT

	PROJECTNAME	USERNAME	DESCRIPTION	BALANCE
1	Help Pandas	wildlife	Pandas are going extinct. Send money.	100000
2	Help Lions	wildlife	Lions are going extinct. Send money.	3000
3	Help Snakes	wildlife	Snakes are going extinct. Send money.	400
4	Help Zebras	wildlife	Zebras are going extinct. Send money.	1610
5	Help Fishies	wildlife	fishies are going extinct. Send money.	8020
6	Stop Global Warming	globewarm	Hot in Herre by Nelly	10
7	Open more CPSC110 sections	ubcneedsmoney	Trust the natural recursion	300
8	Open more CPSC210 sections	ubcneedsmoney	Java	40
9	Bens Fund	fundbenslife	Ben needs money.	0

- During

Selection Query

Search for any project(s)

Add Query Parameter	Project Name	Projects	Username	Description	Balance
Fetch		No existing projects meet the given criteria			

Selection Query

Search for any project(s)

Project Name	includes	Help	
Balance	>	1000	
AND			
No existing projects meet the given criteria			
OR			
Project Name	equals	Stop Global Warming	
Add Query Parameter		OR	Project Name
Fetch			

Selection Query				
Search for any project(s)				
Project Name		Includes	Help	
Balance	> v	1000		AND
OR				
Project Name		equals	Stop Global Warming	
Add Query Parameter		OR	v	Project Name
Fetch				
Projects				
Projects	Username	Description	Balance	
Help Pandas	wildlife	Pandas are going extinct. Send money.	100000	
Help Lions	wildlife	Lions are going extinct. Send money.	3000	
Help Zebras	wildlife	Zebras are going extinct. Send money.	1610	
Help Fishies	wildlife	fishies are going extinct. Send money.	8020	
Stop Global Warming	globewarm	Hot in Herre by Nelly	10	

- After

Output ORA_AFENTO.ORGANIZATION_CREATES_PROJECT

	PROJECTNAME	USERNAME	DESCRIPTION	BALANCE
1	Help Pandas	wildlife	Pandas are going extinct. Send money.	100000
2	Help Lions	wildlife	Lions are going extinct. Send money.	3000
3	Help Zebras	wildlife	Zebras are going extinct. Send money.	1610
4	Help Fishies	wildlife	fishies are going extinct. Send money.	8020
5	Stop Global Warming	globewarm	Hot in Herre by Nelly	10

Projection:

- Before

Output	ORA_CAMTM.ACCOUNT			
USERNAME	PASSWORD	CREATIONDATE	EMAIL	
1	cmcdavid1	\$2a\$10\$1IuJ2D3Zd59SGvD1YsgHu.NlqqVvPnJywLfN/fM1sttb3sM3QwBdS	2023-03-15	cmcdavid@gmail.com
2	ntesla12	\$2a\$10\$4bLtdJGRkOk3nThXVxln.hJdT/18keKTFRgVvY/7vUPeyLpxsK	2023-04-22	ntesla@gmail.com
3	aeinstein30	\$2a\$10\$25WtfUkm4WNLxp2SaTajk.19rbwQK19Ymtlf9/DieUS8pbXGAE36	2023-06-10	aeinstein@gmail.com
4	pshelby1	\$2a\$10\$BSO5cwDvoAsq6B1Zkqk57uYHIVrzWp7oTgrzK1Iq9w0RLxXwVS0	2023-07-29	pshelby@gmail.com
5	tshelby	\$2a\$10\$YqqVWhpDjuXJ5dQCnqdeJeDKBW/4wTdhAOjsLbcEGLaKAgdWfhP2	2023-08-18	tshelby@gmail.com
6	ashebs12	\$2a\$10\$g5aT871jbAwuiuj96GPuKe8dA9JhK1cMGn.BkoYI0cGbM6Ef1gVb0	2023-08-18	artshebelby@gmail.com
7	nomoney10	\$2a\$10\$19jnhHHx9pczz/cCfzDa0eYnuISNrEKyy.HDy9jPHnimzD/fG8BG	2023-08-20	igotnomoney@gmail.com
8	wildlife	\$2a\$10\$SjwiWKGlqgdp98afFw5HKTv7IXFZh95x32M6x17dm0jsdtpXVCna	2023-01-18	wlsaver@gmail.com
9	globewarm	\$2a\$10\$3qTBnT5jpvhfak6LnUql2eN88zedZ0N.KE/MirmPC1p6hi.ilbBa	2023-04-12	gwarm@gmail.com
10	ubcreedsmoney	\$2a\$10\$k5sRUASB.6fsWuwzHmG10.hP11v/C8D5.VHZ9X9uuVsFjwhLvj4By	2023-10-05	ubc@gmail.com
11	sfneedsmoney	\$2a\$10\$gXEuvQXj0tZYoU0vg31bcOuStUzB6v34peNRJLdt89FypCjAfpi5m	2023-10-12	sfu@gmail.com
12	fundbenslife	\$2a\$10\$LRXBpN5tcRrHvMgvij76N.MV4nFC1ZmxInzyX7NsxxXTAG.r2AwVm	2023-07-12	fundben@gmail.com

- During

Select table:

ACCOUNT
 POSTALCODE_LOCATION
 INDIVIDUAL
 PAYMENTINFORMATION
 ORGANIZATION
 ORGANIZATION_CREATES_PROJECT
 ORGANIZATION_CREATES_POST
 ACCOUNT_WRITES_COMMENT_ON_POST
 INDIVIDUAL_MAKES_CONTRIBUTION
 REWARD
 INDIVIDUAL_RECEIVES_REWARD
 PAYMENTTIER
 PAYMENTTIER_HAS_REWARD

Select attributes:

USERNAME
 PASSWORD
 CREATIONDATE
 EMAIL

Select table:

ACCOUNT

Select attributes:

USERNAME
 PASSWORD
 CREATIONDATE
 EMAIL

Results:

USERNAME	PASSWORD	CREATIONDATE	EMAIL
cmcdavid1	\$2a\$10\$1IuJ2D3Zd59SGvD1YsgHu.NlqqVvPnJywLfN/fM1sttb3sM3QwBdS	2023-03-15T08:00:00.000Z	cmcdavid@gmail.com
ntesla12	\$2a\$10\$4bLtdJGRkOk3nThXVxln.hJdT/18keKTFRgVvY/7vUPeyLpxsK	2023-04-22T08:00:00.000Z	ntesla@gmail.com
aeinstein30	\$2a\$10\$25WtfUkm4WNLxp2SaTajk.19rbwQK19Ymtlf9/DieUS8pbXGAE36	2023-06-10T08:00:00.000Z	aeinstein@gmail.com
pshelby1	\$2a\$10\$BSO5cwDvoAsq6B1Zkqk57uYHIVrzWp7oTgrzK1Iq9w0RLxXwVS0	2023-07-29T08:00:00.000Z	pshelby@gmail.com
tshelby	\$2a\$10\$YqqVWhpDjuXJ5dQCnqdeJeDKBW/4wTdhAOjsLbcEGLaKAgdWfhP2	2023-08-18T08:00:00.000Z	tshelby@gmail.com
ashebs12	\$2a\$10\$g5aT871jbAwuiuj96GPuKe8dA9JhK1cMGn.BkoYI0cGbM6Ef1gVb0	2023-08-18T08:00:00.000Z	artshebelby@gmail.com
nomoney10	\$2a\$10\$19jnhHHx9pczz/cCfzDa0eYnuISNrEKyy.HDy9jPHnimzD/fG8BG	2023-08-20T08:00:00.000Z	igotnomoney@gmail.com
wildlife	\$2a\$10\$SjwiWKGlqgdp98afFw5HKTv7IXFZh95x32M6x17dm0jsdtpXVCna	2023-01-18T08:00:00.000Z	wlsaver@gmail.com
globewarm	\$2a\$10\$3qTBnT5jpvhfak6LnUql2eN88zedZ0N.KE/MirmPC1p6hi.ilbBa	2023-04-12T08:00:00.000Z	gwarm@gmail.com
ubcreedsmoney	\$2a\$10\$k5sRUASB.6fsWuwzHmG10.hP11v/C8D5.VHZ9X9uuVsFjwhLvj4By	2023-10-05T08:00:00.000Z	ubc@gmail.com
sfneedsmoney	\$2a\$10\$gXEuvQXj0tZYoU0vg31bcOuStUzB6v34peNRJLdt89FypCjAfpi5m	2023-10-12T08:00:00.000Z	sfu@gmail.com
fundbenslife	\$2a\$10\$LRXBpN5tcRrHvMgvij76N.MV4nFC1ZmxInzyX7NsxxXTAG.r2AwVm	2023-07-12T08:00:00.000Z	fundben@gmail.com

- After

	USERNAME	PASSWORD	CREATIONDATE	EMAIL
1	cmcdavid1	\$2a\$10\$1IuJ2D3Zd59S6v01YsgHu.NLqqVvPnJywLfN/fMIsttb3sM3QwBdS	2023-03-15	cmcdavid@gmail.com
2	ntesla12	\$2a\$10\$4bLtdJGRk0k3nThXVnln.hJdTTr/18keKTRFgVVy/V7UPeyLpxsK	2023-04-22	ntesla@gmail.com
3	aeinstein30	\$2a\$10\$25WtfUkm4WNLxp2SaTajk.19rwbwQK19YMtlf9/D1eU5BpbXGAe36	2023-06-10	aeinstein@gmail.com
4	pshelby1	\$2a\$10\$BS05cwDvoAsq6B1Zkqk57uYHIVrzyWp7oTgrrzK1Iq9w0RLxXwVS0	2023-07-29	pshelby@gmail.com
5	tshels	\$2a\$10\$YqgVWhppjuxJ5dQCnqdeJeDK8WM/4wTdhA0jsLbcCeGLaKagdWfhP2	2023-08-18	tshelby@gmail.com
6	ashebs12	\$2a\$10\$g5aT871jbAwAiu966PuKe8dA9JhK1cM0n.BkoYI0cGbM6Ef1gVb0	2023-08-18	artshebly@gmail.com
7	nomoney10	\$2a\$10\$i9jnhHHx9pczz/cCfzDaOeYnuISNrEKyv.HDy9jPHnimzD/f68BG	2023-08-20	igotnomoney@gmail.com
8	wildlife	\$2a\$10\$SjwiWKGlqgdp98aFw5HkTuV7IXFZh95x32M6x17dm0jsdtpXVcna	2023-01-18	wlsaver@gmail.com
9	globewarm	\$2a\$10\$3qTBnT5jvhfaK6LnUql2eN88zedXZ0N.KE/M1rmPC1pGhi.ilBba	2023-04-12	gwarm@gmail.com
10	ubcneedsmoney	\$2a\$10\$k5sRUASB.6fsWuwzHmG10.hP11v/C805.VHZ9X9uuVsFjwhLvj4By	2023-10-05	ubc@gmail.com
11	sfuneedsmoney	\$2a\$10\$gXEuvQXj0tZYoU0vg31bc0uStUz8Gv34peNRJ1Dt89FYpCjAfpi5m	2023-10-12	sfu@gmail.com
12	fundbenslife	\$2a\$10\$LRXBpN5tcRrHvMgvij76N.MV4nFC1ZmxMnzYx7NssxKTAG.r2AwVm	2023-07-12	fundben@gmail.com

Join:

- Before

	IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1	cmcdavid1	Help Pandas	97	2023-11-30 14:50:02.553459
2	cmcdavid1	Help Lions	97	2023-11-30 14:50:02.569714
3	cmcdavid1	Help Snakes	97	2023-11-30 14:50:02.577662
4	cmcdavid1	Help Zebras	97	2023-11-30 14:50:02.587083
5	cmcdavid1	Help Fishies	97	2023-11-30 14:50:02.597270
6	cmcdavid1	Stop Global Warming	97	2023-11-30 14:50:02.607167
7	cmcdavid1	Open more CPSC110 sections	97	2023-11-30 14:50:02.617214
8	cmcdavid1	Open more CPSC210 sections	97	2023-11-30 14:50:02.625753
9	ntesla12	Help Pandas	15	2023-11-30 14:50:02.636091
10	ntesla12	Stop Global Warming	230	2023-11-30 14:50:02.646802
11	ntesla12	Help Lions	150	2023-11-30 14:50:02.657216
12	ntesla12	Help Fishies	2000	2023-11-30 14:50:02.667224
13	ntesla12	Help Fishies	1	2023-11-30 14:50:02.674588
14	ntesla12	Help Fishies	2	2023-11-30 14:50:02.684397
15	ntesla12	Help Fishies	3	2023-11-30 14:50:02.695197
16	aeinstein30	Help Lions	100	2023-11-30 14:50:02.705415
17	aeinstein30	Help Zebras	50	2023-11-30 14:50:02.714486
18	aeinstein30	Stop Global Warming	50	2023-11-30 14:50:02.725090
19	aeinstein30	Stop Global Warming	10	2023-11-30 14:50:02.735332
20	aeinstein30	Stop Global Warming	42	2023-11-30 14:50:02.744598
21	aeinstein30	Stop Global Warming	100	2023-11-30 14:50:02.754390
22	tshebs	Help Pandas	68	2023-11-30 14:50:02.765278
23	tshebs	Help Pandas	60	2023-11-30 14:50:02.775628
24	tshebs	Bens Fund	7	2023-11-30 14:50:02.785159
25	tshebs	Bens Fund	1	2023-11-30 14:50:02.795235
26	tshebs	Bens Fund	2	2023-11-30 14:50:02.805374
27	tshebs	Help Lions	1	2023-11-30 14:50:02.816560
28	tshebs	Help Lions	1	2023-11-30 14:50:02.824807
29	tshebs	Help Lions	1	2023-11-30 14:50:02.834439
30	tshebs	Help Lions	1	2023-11-30 14:50:02.844587
31	tshebs	Help Lions	1	2023-11-30 14:50:02.854366
32	tshebs	Help Lions	1	2023-11-30 14:50:02.864263
33	tshebs	Help Lions	1	2023-11-30 14:50:02.874769
34	tshebs	Help Zebras	2	2023-11-30 14:50:02.886489
35	tshebs	Help Lions	1	2023-11-30 14:50:02.895693
36	tshebs	Help Lions	5	2023-11-30 14:50:02.907399
37	ashebs12	Open more CPSC110 sections	100	2023-11-30 14:50:02.916781
38	ashebs12	Help Snakes	500	2023-11-30 14:50:02.927190
39	ashebs12	Help Fishies	10	2023-11-30 14:50:02.936827
40	pshelby1	Help Snakes	58	2023-11-30 14:50:02.947576
41	pshelby1	Help Snakes	20	2023-11-30 14:50:02.956829
42	pshelby1	Help Snakes	1	2023-11-30 14:50:02.966339
43	pshelby1	Help Snakes	100	2023-11-30 14:50:02.976603
44	pshelby1	Help Fishies	10	2023-11-30 14:50:02.987414
45	pshelby1	Help Fishies	10	2023-11-30 14:50:02.996513
46	pshelby1	Help Fishies	20	2023-11-30 14:50:03.006425

- During

Join Query

Find all the individuals who have donated to a particular project

Choose a project:

Join Query

Find all the individuals who have donated to a particular project

Choose a project:

[Open more CPSC110 sections ▾](#)

Individual

cmcdavid1

ashebs12

- After

Output ORA_AFENTO.INDIVIDUAL_MAKES_CONTRIBUTION	
◀	< 2 rows ▶
1	cmcdavid1
2	ashebs12

Aggregation with group by:

- Before (contributions made by this individual)

	IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1	cmcdavid1	Help Pandas	97	2023-12-01 14:45:50.607335
2	cmcdavid1	Help Lions	97	2023-12-01 14:45:50.622352
3	cmcdavid1	Help Snakes	97	2023-12-01 14:45:50.653827
4	cmcdavid1	Help Zebras	97	2023-12-01 14:45:50.664008
5	cmcdavid1	Help Fishies	97	2023-12-01 14:45:50.677584
6	cmcdavid1	Stop Global Warming	97	2023-12-01 14:45:50.692875
7	cmcdavid1	Open more CPSC110 sections	97	2023-12-01 14:45:50.707249
8	cmcdavid1	Open more CPSC210 sections	97	2023-12-01 14:45:50.715589

- During ('click show contributions')

My Contributions

Show Contributions

My Contributions

Help Zebras: \$97

Help Pandas: \$97

Open more CPSC210 sections: \$97

Help Fishies: \$97

Help Lions: \$97

Help Snakes: \$97

Stop Global Warming: \$97

Open more CPSC110 sections: \$97

Hide Contributions

- After

Output ORA_CAMTM.INDIVIDUAL_MAKES_CONTRIBUTION

IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1 cmcdavid1	Help Pandas	97	2023-11-30 14:50:02.553459
2 cmcdavid1	Help Lions	97	2023-11-30 14:50:02.569714
3 cmcdavid1	Help Snakes	97	2023-11-30 14:50:02.577662
4 cmcdavid1	Help Zebras	97	2023-11-30 14:50:02.587083
5 cmcdavid1	Help Fishies	97	2023-11-30 14:50:02.597270
6 cmcdavid1	Stop Global Warming	97	2023-11-30 14:50:02.607167
7 cmcdavid1	Open more CPSC110 sections	97	2023-11-30 14:50:02.617214
8 cmcdavid1	Open more CPSC210 sections	97	2023-11-30 14:50:02.625753

Aggregation with having:

- Before

Output ORA_CAMTM.INDIVIDUAL_MAKES_CONTRIBUTION

	IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1	cmcdavid1	Help Pandas	97	2023-11-30 14:50:02.553459
2	cmcdavid1	Help Lions	97	2023-11-30 14:50:02.569714
3	cmcdavid1	Help Snakes	97	2023-11-30 14:50:02.577662
4	cmcdavid1	Help Zebras	97	2023-11-30 14:50:02.587083
5	cmcdavid1	Help Fishies	97	2023-11-30 14:50:02.597270
6	cmcdavid1	Stop Global Warming	97	2023-11-30 14:50:02.607167
7	cmcdavid1	Open more CPSC110 sections	97	2023-11-30 14:50:02.617214
8	cmcdavid1	Open more CPSC210 sections	97	2023-11-30 14:50:02.625753
9	ntesla12	Help Pandas	15	2023-11-30 14:50:02.630091
10	ntesla12	Stop Global Warming	230	2023-11-30 14:50:02.646802
11	ntesla12	Help Lions	150	2023-11-30 14:50:02.657216
12	ntesla12	Help Fishies	2000	2023-11-30 14:50:02.667224
13	ntesla12	Help Fishies	1	2023-11-30 14:50:02.674588
14	ntesla12	Help Fishies	2	2023-11-30 14:50:02.684397
15	ntesla12	Help Fishies	3	2023-11-30 14:50:02.695197
16	aeinstein30	Help Lions	100	2023-11-30 14:50:02.705415
17	aeinstein30	Help Zebras	50	2023-11-30 14:50:02.714486
18	aeinstein30	Stop Global Warming	50	2023-11-30 14:50:02.725090
19	aeinstein30	Stop Global Warming	10	2023-11-30 14:50:02.735332
20	aeinstein30	Stop Global Warming	42	2023-11-30 14:50:02.744598
21	aeinstein30	Stop Global Warming	100	2023-11-30 14:50:02.754390
22	tshebs	Help Pandas	68	2023-11-30 14:50:02.765278
23	tshebs	Help Pandas	60	2023-11-30 14:50:02.775628
24	tshebs	Bens Fund	7	2023-11-30 14:50:02.785159
25	tshebs	Bens Fund	1	2023-11-30 14:50:02.795235
26	tshebs	Bens Fund	2	2023-11-30 14:50:02.805374
27	tshebs	Help Lions	1	2023-11-30 14:50:02.816560
28	tshebs	Help Lions	1	2023-11-30 14:50:02.824807
29	tshebs	Help Lions	1	2023-11-30 14:50:02.834439
30	tshebs	Help Lions	1	2023-11-30 14:50:02.844587
31	tshebs	Help Lions	1	2023-11-30 14:50:02.854366
32	tshebs	Help Lions	1	2023-11-30 14:50:02.864263
33	tshebs	Help Lions	1	2023-11-30 14:50:02.874769
34	tshebs	Help Zebras	2	2023-11-30 14:50:02.886489
35	tshebs	Help Lions	1	2023-11-30 14:50:02.895693
36	tshebs	Help Lions	5	2023-11-30 14:50:02.907399
37	ashebs12	Open more CPSC110 sections	100	2023-11-30 14:50:02.916781
38	ashebs12	Help Snakes	500	2023-11-30 14:50:02.927190
39	ashebs12	Help Fishies	10	2023-11-30 14:50:02.936827
40	pshelby1	Help Snakes	58	2023-11-30 14:50:02.947576
41	pshelby1	Help Snakes	20	2023-11-30 14:50:02.956829
42	pshelby1	Help Snakes	1	2023-11-30 14:50:02.966339
43	pshelby1	Help Snakes	100	2023-11-30 14:50:02.976603
44	pshelby1	Help Fishies	10	2023-11-30 14:50:02.987414
45	pshelby1	Help Fishies	10	2023-11-30 14:50:02.996513
46	pshelby1	Help Fishies	20	2023-11-30 14:50:03.006425

- During

Aggregation Query with Having

Displays all contributors that have contributed to a project more than once

Get Contributors

Contributor	Project Name	Contribution Count
aeinstein30	Stop Global Warming	4
ntesla12	Help Fishies	4
pshelby1	Help Fishies	3
pshelby1	Help Snakes	4
tshebs	Bens Fund	3
tshebs	Help Lions	9
tshebs	Help Pandas	2

- After

	IUSERNAME	PROJECTNAME	"COUNT(*)"
1	aeinstein30	Stop Global Warming	4
2	ntesla12	Help Fishies	4
3	pshelby1	Help Fishies	3
4	pshelby1	Help Snakes	4
5	tshebs	Bens Fund	3
6	tshebs	Help Lions	9
7	tshebs	Help Pandas	2

Nested aggregation with group by:

- Before

	IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1	cmcdavid1	Help Pandas	97	2023-11-30 14:50:02.553459
2	cmcdavid1	Help Lions	97	2023-11-30 14:50:02.569714
3	cmcdavid1	Help Snakes	97	2023-11-30 14:50:02.577662
4	cmcdavid1	Help Zebras	97	2023-11-30 14:50:02.587083
5	cmcdavid1	Help Fishies	97	2023-11-30 14:50:02.597270
6	cmcdavid1	Stop Global Warming	97	2023-11-30 14:50:02.607167
7	cmcdavid1	Open more CPSC110 sections	97	2023-11-30 14:50:02.617214
8	cmcdavid1	Open more CPSC210 sections	97	2023-11-30 14:50:02.625753
9	ntesla12	Help Pandas	15	2023-11-30 14:50:02.636091
10	ntesla12	Stop Global Warming	230	2023-11-30 14:50:02.646802
11	ntesla12	Help Lions	150	2023-11-30 14:50:02.657216
12	ntesla12	Help Fishies	2000	2023-11-30 14:50:02.667224
13	ntesla12	Help Fishies	1	2023-11-30 14:50:02.674588
14	ntesla12	Help Fishies	2	2023-11-30 14:50:02.684397
15	ntesla12	Help Fishies	3	2023-11-30 14:50:02.695197
16	aeinstein30	Help Lions	100	2023-11-30 14:50:02.705415
17	aeinstein30	Help Zebras	50	2023-11-30 14:50:02.714486
18	aeinstein30	Stop Global Warming	50	2023-11-30 14:50:02.725090
19	aeinstein30	Stop Global Warming	10	2023-11-30 14:50:02.735332
20	aeinstein30	Stop Global Warming	42	2023-11-30 14:50:02.744598
21	aeinstein30	Stop Global Warming	100	2023-11-30 14:50:02.754390
22	tshebs	Help Pandas	68	2023-11-30 14:50:02.765278
23	tshebs	Help Pandas	60	2023-11-30 14:50:02.775628
24	tshebs	Bens Fund	7	2023-11-30 14:50:02.785159
25	tshebs	Bens Fund	1	2023-11-30 14:50:02.795235
26	tshebs	Bens Fund	2	2023-11-30 14:50:02.805374
27	tshebs	Help Lions	1	2023-11-30 14:50:02.816560
28	tshebs	Help Lions	1	2023-11-30 14:50:02.824807
29	tshebs	Help Lions	1	2023-11-30 14:50:02.834439
30	tshebs	Help Lions	1	2023-11-30 14:50:02.844587
31	tshebs	Help Lions	1	2023-11-30 14:50:02.854366
32	tshebs	Help Lions	1	2023-11-30 14:50:02.864263
33	tshebs	Help Lions	1	2023-11-30 14:50:02.874769
34	tshebs	Help Zebras	2	2023-11-30 14:50:02.886489
35	tshebs	Help Lions	1	2023-11-30 14:50:02.895693
36	tshebs	Help Lions	5	2023-11-30 14:50:02.907399
37	ashebs12	Open more CPSC110 sections	100	2023-11-30 14:50:02.916781
38	ashebs12	Help Snakes	500	2023-11-30 14:50:02.927190
39	ashebs12	Help Fishies	10	2023-11-30 14:50:02.936827
40	pshelby1	Help Snakes	58	2023-11-30 14:50:02.947576
41	pshelby1	Help Snakes	20	2023-11-30 14:50:02.956829
42	pshelby1	Help Snakes	1	2023-11-30 14:50:02.966339
43	pshelby1	Help Snakes	100	2023-11-30 14:50:02.976603
44	pshelby1	Help Fishies	10	2023-11-30 14:50:02.987414
45	pshelby1	Help Fishies	10	2023-11-30 14:50:02.996513
46	pshelby1	Help Fishies	20	2023-11-30 14:50:03.006425

- During

Top Contributors

Our top contributors are users who donated above the average user donation. They are displayed by username and with the amount of donations they made above the average amount.

[Show top contributors](#)

Top Contributors

Our top contributors are users who donated above the average user donation. They are displayed by username and with the amount of donations they made above the average amount.

[Hide top contributors](#)

aeinstein30: 2 Donations

ashebs12: 2 Donations

ntesla12: 3 Donations

pshelby1: 1 Donations

- After

Result 60		
	IUSERNAME	COUNT(*)
1	aeinstein30	2
2	ashebs12	2
3	ntesla12	3
4	pshelby1	1

Division:

- Before

	IUSERNAME	PROJECTNAME	AMOUNT	TIMESTAMP
1	cmcdavid1	Help Pandas	97	2023-11-30 14:50:02.553459
2	cmcdavid1	Help Lions	97	2023-11-30 14:50:02.569714
3	cmcdavid1	Help Snakes	97	2023-11-30 14:50:02.577662
4	cmcdavid1	Help Zebras	97	2023-11-30 14:50:02.587083
5	cmcdavid1	Help Fishies	97	2023-11-30 14:50:02.597270
6	cmcdavid1	Stop Global Warming	97	2023-11-30 14:50:02.607167
7	cmcdavid1	Open more CPSC110 sections	97	2023-11-30 14:50:02.617214
8	cmcdavid1	Open more CPSC210 sections	97	2023-11-30 14:50:02.625753
9	ntesla12	Help Pandas	15	2023-11-30 14:50:02.636091
10	ntesla12	Stop Global Warming	230	2023-11-30 14:50:02.646802
11	ntesla12	Help Lions	150	2023-11-30 14:50:02.657216
12	ntesla12	Help Fishies	2000	2023-11-30 14:50:02.667224
13	ntesla12	Help Fishies	1	2023-11-30 14:50:02.674588
14	ntesla12	Help Fishies	2	2023-11-30 14:50:02.684397
15	ntesla12	Help Fishies	3	2023-11-30 14:50:02.695197
16	aeinstein30	Help Lions	100	2023-11-30 14:50:02.705415
17	aeinstein30	Help Zebras	50	2023-11-30 14:50:02.714486
18	aeinstein30	Stop Global Warming	50	2023-11-30 14:50:02.725090
19	aeinstein30	Stop Global Warming	10	2023-11-30 14:50:02.735332
20	aeinstein30	Stop Global Warming	42	2023-11-30 14:50:02.744598
21	aeinstein30	Stop Global Warming	100	2023-11-30 14:50:02.754390
22	tshebs	Help Pandas	68	2023-11-30 14:50:02.765278
23	tshebs	Help Pandas	60	2023-11-30 14:50:02.775628
24	tshebs	Bens Fund	7	2023-11-30 14:50:02.785159
25	tshebs	Bens Fund	1	2023-11-30 14:50:02.795235
26	tshebs	Bens Fund	2	2023-11-30 14:50:02.805374
27	tshebs	Help Lions	1	2023-11-30 14:50:02.816560
28	tshebs	Help Lions	1	2023-11-30 14:50:02.824807
29	tshebs	Help Lions	1	2023-11-30 14:50:02.834439
30	tshebs	Help Lions	1	2023-11-30 14:50:02.844587
31	tshebs	Help Lions	1	2023-11-30 14:50:02.854366
32	tshebs	Help Lions	1	2023-11-30 14:50:02.864263
33	tshebs	Help Lions	1	2023-11-30 14:50:02.874769
34	tshebs	Help Zebras	2	2023-11-30 14:50:02.886489
35	tshebs	Help Lions	1	2023-11-30 14:50:02.895693
36	tshebs	Help Lions	5	2023-11-30 14:50:02.907399
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45	pshelby1	Help Fishies	10	2023-11-30 14:50:02.996513
46	pshelby1	Help Fishies	20	2023-11-30 14:50:03.006425

- During

**See what selected donors have contributed money to
every selected project!**

Donors:	Projects:	Result:
einstein30	Help Fishies	<input type="checkbox"/>
ashebs12	Help Lions	<input type="checkbox"/>
cmcdavid1	Help Pandas	<input type="checkbox"/>
ntesla12	Help Snakes	<input type="checkbox"/>
pshelby1	Help Zebras	<input type="checkbox"/>
tshebs		

**See what selected donors have contributed money to
every selected project!**

Donors:	Projects:	Result:
einstein30 ✓	Help Fishies ✓	cmcdaid1
ashebs12 ✓	Help Lions ✓	ntesla12
cmcdaid1 ✓	Help Pandas ✓	
ntesla12 ✓	Help Snakes □	
pshelby1 ✓	Help Zebras □	
tshebs ✓		

- After

	USERNAME
1	cmcdaivid1
2	ntesla12