

1. Project Description:

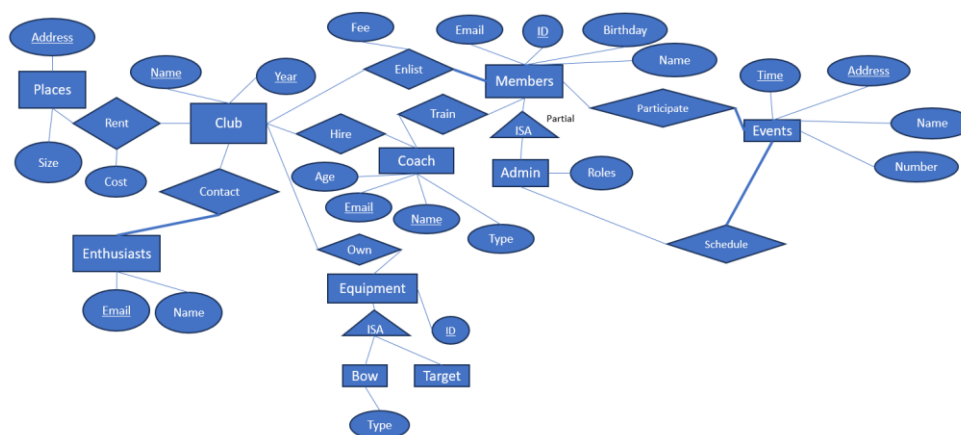
Our project, using archery club as an example, aims to provide a meaningful template represented as database and a website that helps clubs to manage their enrolment process, newsletter subscriptions, coach hiring, events scheduling, costs & income balance, relevant rents, and equipment purchases and maintenance. It will also provide functionality to select administrators from the active members who will be given roles in updating the club database or handling relevant tasks such as scheduling events or managing coaches. By the end of Dec.1st, our team successfully implemented a working website system containing several front-end & back-end parts and well-designed database using our knowledge about PHP, HTML, and SQL. In detail, we realized the parts for member registration & enthusiast signup page to represent the club enrollment system. We also carefully implemented the events page & give members various options to query events to encourage participation and involvement. Finally and most importantly, we gave huge focuses on the admin page which now can schedule, remove, and update events as well as accessing private information about members and coaches.

2. Description of Final Schema:

2.1 Changes Made Regarding to the ER Diagram & Schema:

- i. Remove ISA relationship from 'Events' as it does not contain additional attributes as suggested by our TA; in addition, we added a new attribute 'event_name' to identify events.
- ii. Remove the relationship set 'Buy' as we find this set irrelevant to our club system.
- iii. Remove the relationship set 'Manage' as it's an abstract relation set whose functionality is already represented in detail by other relationship set such as 'Schedule'.
- iv. Remove the total participation on the 'Club' side as the club can have no member at the start of each club year/secession.
- v. Rename the relationship set 'Connect' to 'Contact' as 'Connect' is a keyword in the database system.
- vi. Remove the attribute logo from the club for memory concerns.
- vii. Adding an attribute age to 'Coach' in order to perform Aggregated queries.
- viii. Adding event_number to Event to fulfill the requirement for query 'Update'.

Here's a copy of the updated ER diagram:



3. Schema:

In the following parts, we will use **Bold** to denote FOREIGN KEY & Underline to denote PRIMARY KEY.

1) A List of Tables for Entities:

- Places (Places_Address: VARCHAR, Places_Size: INTEGER)
- Clubs (Club_Name: VARCHAR, Club_Year: INTEGER)
- Enthusiasts (En_Email: VARCHAR, En_Name: VARCHAR)
- Members (Member_ID: VARCHAR, Member_Birthday: VARCHAR, Member_Email: VARCHAR, Member_Name: VARCHAR)
- Admin (Admin_Roles: VARCHAR, **Member_ID**: VARCHAR)
- Events (Event_Time: VARCHAR, Event_Address: VARCHAR, Event_Name: VARCHAR, Event_Number: INTEGER)
- Coach (Coach_Email: VARCHAR, Coach_Name: VARCHAR, Coach_Age: INTEGER, Coach_Type: VARCHAR)
- Equipment (Equipment_ID: VARCHAR)
- Bow (Bow_Type: VARCHAR, **Equipment_ID**: VARCHAR)
- Target (**Equipment_ID**: VARCHAR)

Note that we are using Foreign keys to denote ISA relations because all ISA relations in our ER diagram are partial & disjoint.

2) A list of Tables for Relations:

- Rent1 (**Places_Address**: VARCHAR, Rent_Cost: INTEGER)
- Rent2 (**Places_Address**: VARCHAR, **Club_Name**: VARCHAR, **Club_Year**: INTEGER)
- Contact (En_Email: VARCHAR, **Club_Name**: VARCHAR, **Club_Year**: INTEGER)
- Enlist1 (**Club_Name**: VARCHAR, **Club_Year**: INTEGER, Fees: INTEGER)
- Enlist2 (**Club_Name**: VARCHAR, **Club_Year**: INTEGER, **Member_ID**: VARCHAR)
- Hire (**Club_Name**: VARCHAR, **Club_Year**: INTEGER, **Coach_Email**: VARCHAR, **Coach_Name**: VARCHAR)
- Own (**Equipment_ID**: VARCHAR, **Club_Name**: VARCHAR, **Club_Year**: INTEGER)
- Train (**Coach_Email**: VARCHAR, **Coach_Name**: VARCHAR, **Member_ID**: VARCHAR)
- Participate (**Member_ID**: VARCHAR, **Event_Time**: VARCHAR, **Event_Address**: VARCHAR)
- Schedule (**Member_ID**: VARCHAR, **Event_Time**: VARCHAR, **Event_Address**: VARCHAR)

3) Data in Each Schema:

Schema Name:	Data:														
Places	<table><tr><th colspan="2">Places</th></tr><tr><th><u>places_Address</u></th><th><u>places_Size</u></th></tr><tr><td>1234 Main St</td><td>200</td></tr><tr><td>333 W Broadway</td><td>200</td></tr><tr><td>673 W 27th Ave</td><td>120</td></tr><tr><td>2221 E 33rd Ave</td><td>145</td></tr><tr><td>1433 Cambie St</td><td>300</td></tr></table>	Places		<u>places_Address</u>	<u>places_Size</u>	1234 Main St	200	333 W Broadway	200	673 W 27th Ave	120	2221 E 33rd Ave	145	1433 Cambie St	300
Places															
<u>places_Address</u>	<u>places_Size</u>														
1234 Main St	200														
333 W Broadway	200														
673 W 27th Ave	120														
2221 E 33rd Ave	145														
1433 Cambie St	300														
Clubs	<table><tr><th colspan="2">Clubs</th></tr><tr><th><u>club_name</u></th><th><u>club_year</u></th></tr><tr><td>UBC Archery Club</td><td>2009</td></tr><tr><td>UBC Archery Club</td><td>2010</td></tr><tr><td>UBC Archery Club</td><td>2023</td></tr><tr><td>UBC Archery Club</td><td>2016</td></tr><tr><td>UBC Archery Club</td><td>2021</td></tr></table>	Clubs		<u>club_name</u>	<u>club_year</u>	UBC Archery Club	2009	UBC Archery Club	2010	UBC Archery Club	2023	UBC Archery Club	2016	UBC Archery Club	2021
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UBC Archery Club	2010														
UBC Archery Club	2023														
UBC Archery Club	2016														
UBC Archery Club	2021														

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Enthusiasts	Enthusiasts			
	En_email		En_name	
	linuschen28@gmail.com		Linus Chen	
	kunglim@gmail.com		Kung Lim	
	edwardwang915@gmail.com		Edward Wang	
	johndoe@hotmail.com		John Doe	
	hotdogeater@student.ubc.ca		Alex Smith	
Members	Members			
	member_id	member_Birthday	member_email	member_name
	"001"	2001-10-11	jacobmartin@gmail.com	Jacob Martin
	"002"	2003-11-28	leonidasmax11@student.ubc.ca	Leonidas Max
	"101"	1999-02-01	marklee3@yahoo.ca	Mark Lee
	"026"	2001-10-11	michaeljackson@gmail.com	Jackson Michael
	"010"	2005-07-30	ccheung222@gmail.com	Carson Cheung
	"004"	2000-12-25	santasanderson@gmail.com	Santa Sanderson
	"000"	2000-12-25	Batman@gmail.com	Batman
Admin	Admin			
	admin_Roles		member_id	
	President	"001"		
	Vice President	"002"		
	Treasurer	"010"		
	Equipment Manager	"004"		
	Event Manager	"026"		
Events	Events			
	event_time	event_address	event_number	event_name
	2023-10-31 @ 7PM	1234 Main St	1	Shootout
	2023-11-09 @ 6PM	1234 Main St	2	Shootout
	2023-12-23 @ 5PM	673 W 27th Ave	3	Meeting
	2023-10-27 @ 11AM	2221 E 33rd Ave	4	Meeting
	2023-01-09 @ 7PM	333 W Broadway	5	Meeting
Coach	Coach			
	coach_email	coach_name	coach_age	coach_type
	coachmike@gmail.com	Mike Krasinski	20	Archer
	archerywithalex@gmail.com	Alex Chou	30	Archer
	emcallister@student.ubc.ca	Evan McAllister	40	Generalist
	emilybow@shaw.ca	Emily Bowman	40	Generalist
	coachjosephng@ubc.ca	Joseph Ng	45	Generalist
Equipment	Equipment			
	equipment_id			
	B01			
	T12			
	T20			
	B02			
	T11			
	B03			
	B05			
	B04			
	T01			
	T06			
	Bow	Bow		
bow_Type		equipment_id		
Recurve bow		B01		
Recurve bow		B02		
Compound bow		B05		
Longbow		B04		
Recurve bow		B03		
Target	Targets			
	equipment_id			
	T01			
	T06			
	T20			
	T11			
	T12			
Rent1	Rent1			
	rent_Cost		places_Address	
	120		1234 Main St	
Rent2	Rent2			
	club_name		club_year	
	club_name		places_Address	
	UBC Archery Club		2009	
	UBC Archery Club		2010	
	UBC Archery Club		2023	
	UBC Archery Club		2016	
UBC Archery Club		2021		

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Contact	Contact			
	En_email	club_name	club_year	
	linuschen28@gmail.com	UBC Archery Club	2009	
	kunglim@gmail.com	UBC Archery Club	2010	
	edwardwang915@gmail.com	UBC Archery Club	2023	
	johndoe@hotmail.com	UBC Archery Club	2016	
	hotdogeater@student.ubc.ca	UBC Archery Club	2021	
Enlist1	Enlist1			
	club_name	club_year	Fees	
	UBC Archery Club	2009	20	
	UBC Archery Club	2010	75	
	UBC Archery Club	2023	20	
	UBC Archery Club	2016	60	
UBC Archery Club	2021	90		
Enlist2	Enlist2			
	club_name	club_year	member_id	
	UBC Archery Club	2009	"001"	
	UBC Archery Club	2010	"002"	
	UBC Archery Club	2023	"101"	
	UBC Archery Club	2016	"026"	
UBC Archery Club	2021	"010"		
Hire	Hire			
	club_name	club_year	coach_email	coach_name
	UBC Archery Club	2009	coachmike@gmail.com	Mike Krasinski
	UBC Archery Club	2010	archerywithalex@gmail.com	Alex Chou
	UBC Archery Club	2023	emcallister@student.ubc.ca	Evan McAllister
	UBC Archery Club	2016	emilybow@shaw.ca	Emily Bowman
UBC Archery Club	2021	coachjosephng@ubc.ca	Joseph Ng	
Own	Own			
	equipment_id	club_name	club_year	
	B01	UBC Archery Club	2009	
	T12	UBC Archery Club	2010	
	T20	UBC Archery Club	2023	
	B02	UBC Archery Club	2016	
	T11	UBC Archery Club	2021	
	B03	UBC Archery Club	2023	
	B05	UBC Archery Club	2010	
	B04	UBC Archery Club	2023	
	T01	UBC Archery Club	2009	
T06	UBC Archery Club	2016		
Train	Train			
	coach_email	coach_name	member_id	
	coachmike@gmail.com	Mike Krasinski	"001"	
	archerywithalex@gmail.com	Alex Chou	"002"	
	emcallister@student.ubc.ca	Evan McAllister	"101"	
	emilybow@shaw.ca	Emily Bowman	"026"	
	coachjosephng@ubc.ca	Joseph Ng	"010"	
Participate	Participate			
	member_id	event_time	event_address	
	"001"	2023-10-31 @ 7PM	1234 Main St	
	"002"	2023-11-09 @ 6PM	1234 Main St	
	"101"	2023-12-23 @ 5PM	673 W 27th Ave	
	"026"	2023-10-27 @ 11AM	2221 E 33rd Ave	
	"010"	2023-01-09 @ 7PM	333 W Broadway	
	"000"	2023-10-31 @ 7PM	1234 Main St	
	"000"	2023-11-09 @ 6PM	1234 Main St	
	"000"	2023-12-23 @ 5PM	674 W 27th Ave	
	"000"	2023-10-27 @ 11AM	2222 E 33rd Ave	
	"000"	2023-01-09 @ 7PM	334 W Broadway	

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Schedule	Schedule		
	member_id	event_time	event_address
	'001"	2023-10-31 @ 7PM	1234 Main St
	'002"	2023-11-09 @ 6PM	1234 Main St
	'004"	2023-12-23 @ 5PM	674 W 27th Ave
	'026"	2023-10-27 @ 11AM	2222 E 33rd Ave
	'010"	2023-01-09 @ 7PM	334 W Broadway

4. SQL Queries:

Queries	Location in Code
INSERT	In Admin_Page.php: HTML: 63 – 72; PHP: 74 – 88, 503 – 516, 327 – 373.
DELETE	In Admin_Page.php: HTML: 90 – 96; PHP: 98 – 111, 503 – 516, 375 – 406.
UPDATE	In Admin_Page.php: HTML: 113 – 122; PHP: 124 – 136, 503 – 516, 408 – 459.
DIVISION:	In Admin_Page.php: HTML: 138 – 143; PHP: 145 – 150, 518 – 532, 461 – 480.
Aggregation with Group By	In Admin_Page.php: HTML: 152 – 156; PHP: 158 – 163, 518 – 532, 482 – 500.
SELECTION:	In Events.php: HTML: 62 – 70; PHP: 72 – 85, 524 – 542, 279 – 320.
PROJECTION:	In Events.php: HTML: 87 – 96; PHP: 98 – 103, 524 – 542, 333 – 445.
JOIN	In Events.php: HTML: 105 – 112; PHP: 114 – 124, 524 – 542, 450 – 469.
Aggregation with Having	In Events.php: HTML: 126 – 131; PHP: 133 – 138, 524 – 542, 471 – 495.
Nested Aggregation with Group By	In Events.php: HTML: 140 – 145; PHP: 147 – 152, 524 – 542, 497 – 522.

5. Screenshots:

Query Name	Before	After																																																																				
	<div><div>INSERT</div><div><div>Admin Number: <input type="text" value="001"/></div><div>Event Name: <input type="text" value="Shootout"/></div><div>Event Time: <input type="text" value="2023-11-1 @ 7PM"/></div><div>Event Number: <input type="text" value="9"/></div><div>Event Location: <input type="text" value="1234 Main St"/></div><div><input type="button" value="Insert"/></div><div>MISSING INPUT VALS ACTION SUCCEEDED</div><div>Retrieved data from table Events:<table><tr><th>Name</th><th>Time</th><th>Location</th><th>ID</th></tr><tr><td>Meeting</td><td>2023-10-31 @ 7PM</td><td>1234 Main St</td><td>8</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Meeting</td><td>2023-12-23 @ 5PM</td><td>673 W 27th Ave</td><td>3</td></tr><tr><td>Meeting</td><td>2023-10-27 @ 11AM</td><td>2221 E 33rd Ave</td><td>4</td></tr><tr><td>Meeting</td><td>2023-01-09 @ 7PM</td><td>333 W Broadway</td><td>5</td></tr><tr><td>Shootout</td><td>2023-11-30 @ 7PM</td><td>1234 Main St</td><td>6</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1235 Main St</td><td>7</td></tr></table></div></div></div>	Name	Time	Location	ID	Meeting	2023-10-31 @ 7PM	1234 Main St	8	Shootout	2023-11-09 @ 6PM	1234 Main St	2	Meeting	2023-12-23 @ 5PM	673 W 27th Ave	3	Meeting	2023-10-27 @ 11AM	2221 E 33rd Ave	4	Meeting	2023-01-09 @ 7PM	333 W Broadway	5	Shootout	2023-11-30 @ 7PM	1234 Main St	6	Shootout	2023-11-09 @ 6PM	1235 Main St	7	<div><div>Create New Events:</div><div><div>Admin Number: <input type="text" value="Ex: 001 OR 002 OR 003"/></div><div>Event Name: <input type="text" value="Meeting OR Shootout"/></div><div>Event Time: <input type="text" value="Ex: 2023-10-31 @ 7PM"/></div><div>Event Number: <input type="text" value="Ex: 1 OR 2 OR 3 OR 4"/></div><div>Event Location: <input type="text" value="Ex: 1234 Main St"/></div><div><input type="button" value="Insert"/></div><div>ACTION SUCCEEDED</div><div>ACTION SUCCEEDED</div><div>ACTION SUCCEEDED</div><div>Retrieved data from table Events:<table><tr><th>Name</th><th>Time</th><th>Location</th><th>ID</th></tr><tr><td>Meeting</td><td>2023-10-31 @ 7PM</td><td>1234 Main St</td><td>8</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Meeting</td><td>2023-12-23 @ 5PM</td><td>673 W 27th Ave</td><td>3</td></tr><tr><td>Meeting</td><td>2023-10-27 @ 11AM</td><td>2221 E 33rd Ave</td><td>4</td></tr><tr><td>Meeting</td><td>2023-01-09 @ 7PM</td><td>333 W Broadway</td><td>5</td></tr><tr><td>Shootout</td><td>2023-11-1 @ 7PM</td><td>1234 Main St</td><td>9</td></tr><tr><td>Shootout</td><td>2023-11-30 @ 7PM</td><td>1234 Main St</td><td>6</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1235 Main St</td><td>7</td></tr></table></div></div></div>	Name	Time	Location	ID	Meeting	2023-10-31 @ 7PM	1234 Main St	8	Shootout	2023-11-09 @ 6PM	1234 Main St	2	Meeting	2023-12-23 @ 5PM	673 W 27th Ave	3	Meeting	2023-10-27 @ 11AM	2221 E 33rd Ave	4	Meeting	2023-01-09 @ 7PM	333 W Broadway	5	Shootout	2023-11-1 @ 7PM	1234 Main St	9	Shootout	2023-11-30 @ 7PM	1234 Main St	6	Shootout	2023-11-09 @ 6PM	1235 Main St	7
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UPDATE	<p>Update Events Name & Number by Time & Location:</p> <p>New Event Name: <input type="text" value="Shootout"/></p> <p>New Event Number: <input type="text" value="100"/></p> <p>Event Time: <input type="text" value="2023-10-31 @ 7PM"/></p> <p>Event Location: <input type="text" value="1234 Main St"/></p> <p><input type="button" value="Update"/></p> <p>MISSING INPUT VALS ACTION SUCCEEDED</p> <p>Retrieved data from table Events:</p> <table><thead><tr><th>Name</th><th>Time</th><th>Location</th><th>ID</th></tr></thead><tbody><tr><td>Meeting</td><td>2023-10-31 @ 7PM</td><td>1234 Main St</td><td>8</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Meeting</td><td>2023-12-23 @ 5PM</td><td>673 W 27th Ave</td><td>3</td></tr><tr><td>Meeting</td><td>2023-10-27 @ 11AM</td><td>2221 E 33rd Ave</td><td>4</td></tr><tr><td>Meeting</td><td>2023-01-09 @ 7PM</td><td>333 W Broadway</td><td>5</td></tr><tr><td>Shootout</td><td>2023-11-30 @ 7PM</td><td>1234 Main St</td><td>6</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1235 Main St</td><td>7</td></tr></tbody></table>	Name	Time	Location	ID	Meeting	2023-10-31 @ 7PM	1234 Main St	8	Shootout	2023-11-09 @ 6PM	1234 Main St	2	Meeting	2023-12-23 @ 5PM	673 W 27th Ave	3	Meeting	2023-10-27 @ 11AM	2221 E 33rd Ave	4	Meeting	2023-01-09 @ 7PM	333 W Broadway	5	Shootout	2023-11-30 @ 7PM	1234 Main St	6	Shootout	2023-11-09 @ 6PM	1235 Main St	7	<p>Update Events Name & Number by Time & Location:</p> <p>New Event Name: <input type="text" value="Meeting OR Shootout"/></p> <p>New Event Number: <input type="text" value="Ex: 1 OR 2 OR 3 OR 4"/></p> <p>Event Time: <input type="text" value="Ex: 2023-10-31 @ 7PM"/></p> <p>Event Location: <input type="text" value="Ex: 1234 Main St"/></p> <p><input type="button" value="Update"/></p> <p>ACTION SUCCEEDED ACTION SUCCEEDED</p> <p>Retrieved data from table Events:</p> <table><thead><tr><th>Name</th><th>Time</th><th>Location</th><th>ID</th></tr></thead><tbody><tr><td>Shootout</td><td>2023-10-31 @ 7PM</td><td>1234 Main St</td><td>100</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Meeting</td><td>2023-12-23 @ 5PM</td><td>673 W 27th Ave</td><td>3</td></tr><tr><td>Meeting</td><td>2023-10-27 @ 11AM</td><td>2221 E 33rd Ave</td><td>4</td></tr><tr><td>Meeting</td><td>2023-01-09 @ 7PM</td><td>333 W Broadway</td><td>5</td></tr><tr><td>Shootout</td><td>2023-11-30 @ 7PM</td><td>1234 Main St</td><td>6</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1235 Main St</td><td>7</td></tr></tbody></table>	Name	Time	Location	ID	Shootout	2023-10-31 @ 7PM	1234 Main St	100	Shootout	2023-11-09 @ 6PM	1234 Main St	2	Meeting	2023-12-23 @ 5PM	673 W 27th Ave	3	Meeting	2023-10-27 @ 11AM	2221 E 33rd Ave	4	Meeting	2023-01-09 @ 7PM	333 W Broadway	5	Shootout	2023-11-30 @ 7PM	1234 Main St	6	Shootout	2023-11-09 @ 6PM	1235 Main St	7
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Aggregation HAVING	Find All the Events that Have Participants: <div>submit</div>	Find All the Events that Have Participants: <div>submit</div> Retrieved data from table Events, Participate: <table><tr><th>Name</th><th>Time</th><th>Location</th><th>Count</th></tr><tr><td>Meeting</td><td>2023-12-23 @ 5PM</td><td>673 W 27th Ave</td><td>2</td></tr><tr><td>Meeting</td><td>2023-10-27 @ 11AM</td><td>2221 E 33rd Ave</td><td>2</td></tr><tr><td>Shootout</td><td>2023-10-31 @ 7PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Shootout</td><td>2023-11-09 @ 6PM</td><td>1234 Main St</td><td>2</td></tr><tr><td>Meeting</td><td>2023-01-09 @ 7PM</td><td>333 W Broadway</td><td>2</td></tr></table>	Name	Time	Location	Count	Meeting	2023-12-23 @ 5PM	673 W 27th Ave	2	Meeting	2023-10-27 @ 11AM	2221 E 33rd Ave	2	Shootout	2023-10-31 @ 7PM	1234 Main St	2	Shootout	2023-11-09 @ 6PM	1234 Main St	2	Meeting	2023-01-09 @ 7PM	333 W Broadway	2
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Division	Find the members who have registered in all events <div>Query</div>	Find the members who have registered in all events <div>Query</div> ACTION SUCCEEDED Retrieved data from table Members: <table><tr><th>ID</th><th>Name</th><th>Birthday</th><th>Email</th></tr><tr><td>000</td><td>Batman</td><td>2000-12-25</td><td>Batman@gmail.com</td></tr></table>	ID	Name	Birthday	Email	000	Batman	2000-12-25	Batman@gmail.com																
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Reference:

1. Took reference from Sample PHP created by 304 TA.
2. Used img from 1. https://upload.wikimedia.org/wikipedia/commons/2/23/Moon_Bow_and_Arrow.svg to represent our club logo.
3. Used img from 2. https://upload.wikimedia.org/wikipedia/commons/8/88/Map_marker.svg to decorate our footer section.
4. Used img <https://www.iconpacks.net/free-icon/blue-phone-7152.html> for mobile & email icon in the footer section.