

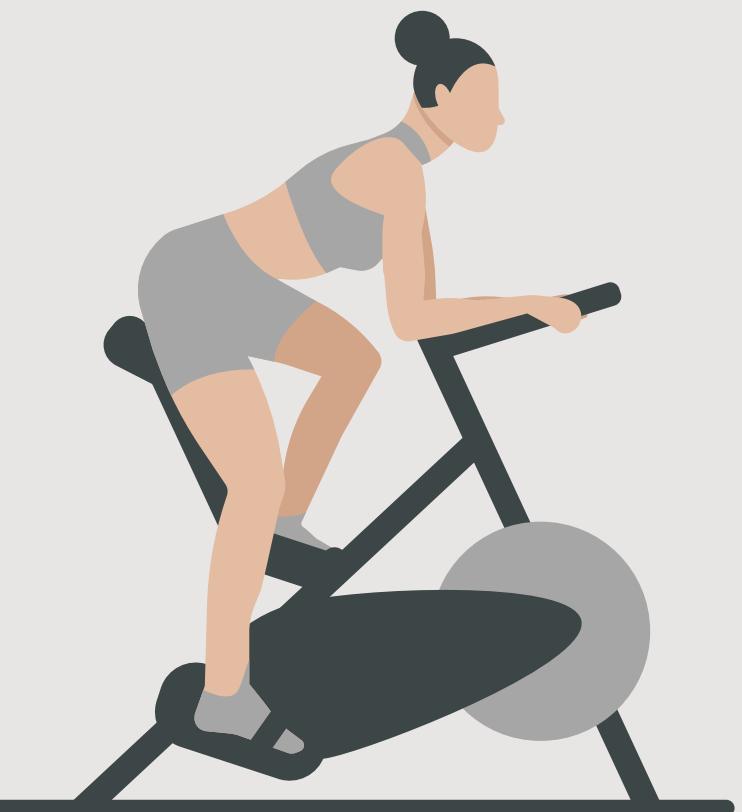


جامعة أم القرى
كلية الحاسوب الآلي
ونظم المعلومات

GYM

MANAGEMENT SYSTEM

supervised by
DR.hadeel Alahmadi



BUSINESS RULE

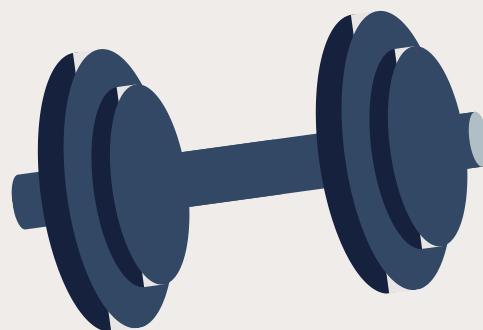


In our gym, we offer PACKAGEs, and WORKOUT_PLANS.

The MEMBER should register in a package.

Each member has a name (First Name and Last name), membership ID, ID number, 1-3 Phone numbers and age.

The package has a package ID, package name, period and cost. When the member registers in the package, we should store the registration date.



BUSINESS RULE



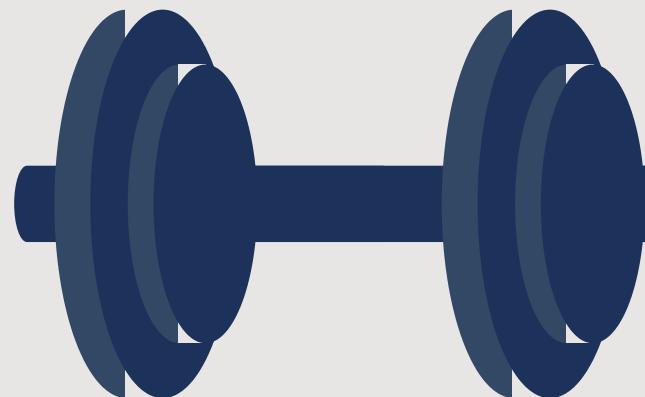
Also, the member can participate in a specific workout plan, which includes COACHes and CLASSes.

Each workout plan is assigned a plan ID, start date, end date and price.

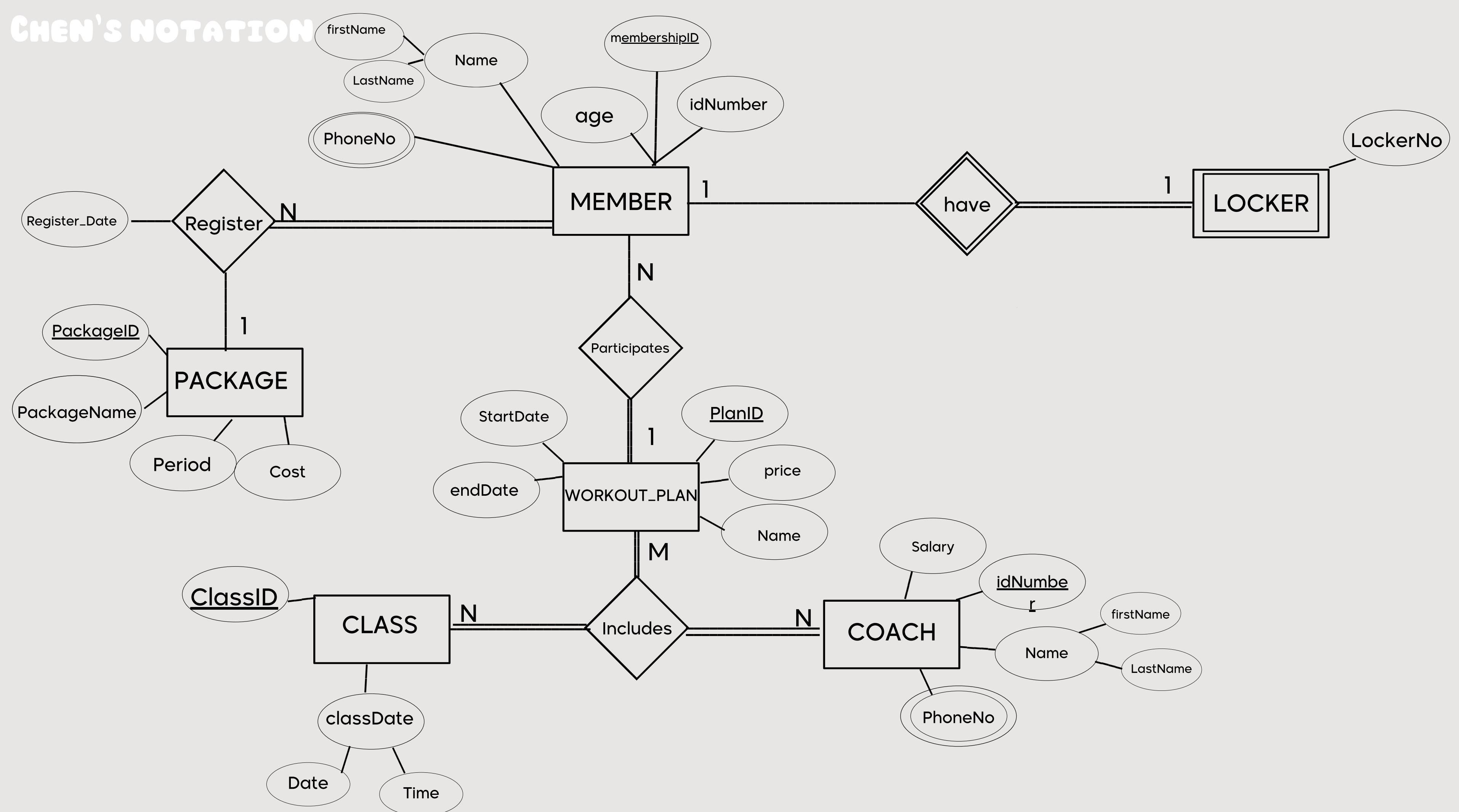
Each coach has a ID number, name(First Name and Last name), 1-3 phone numbers and salary.

Each class has a class ID, class name and class date(Date and Time).

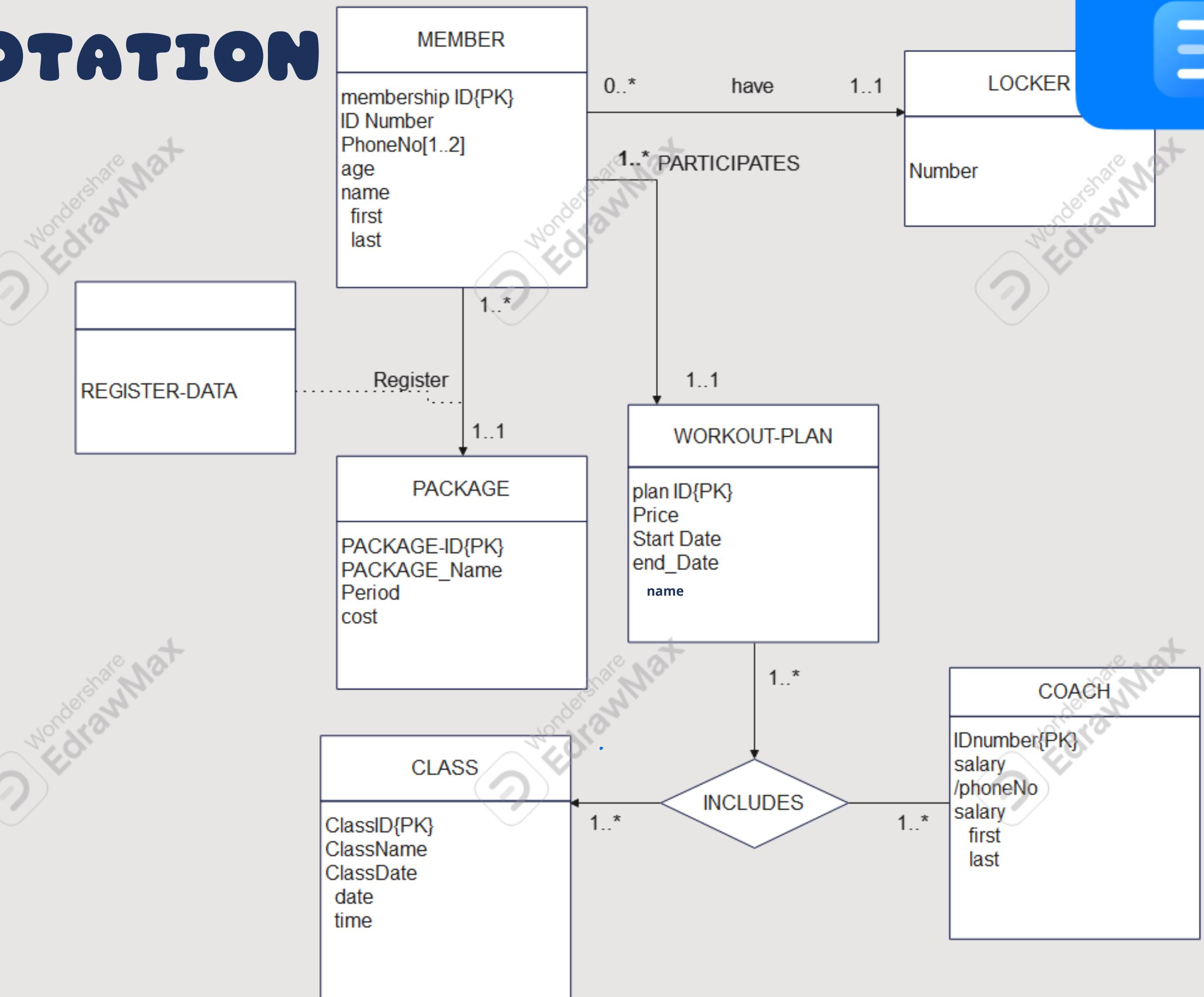
Members can also choose one locker daily upon their arrival to the club,
Each locker has a specific number..



CHEN'S NOTATION



UML NOTATION



PHASE 2



RELATIONAL SCHEMA

STEP 1: MAPPING OF REGULAR ENTITY:

MEMBER

<u>membershipID</u>	idNumber	firstName	LastName	age
---------------------	----------	-----------	----------	-----

PACKAGE

<u>PackageID</u>	PName	Period	Cost
------------------	-------	--------	------

WOROUT_PLAN

<u>PlanID</u>	StartDate	endDate	price	name
price				

<u>planID</u>	Price
---------------	-------

CLASS

<u>ClassID</u>	Date	Time
----------------	------	------

COACH

<u>IdNumber</u>	fName	lName	Salary
-----------------	-------	-------	--------



STEP 2: MAPPING WEEK ENTITY TYPES:

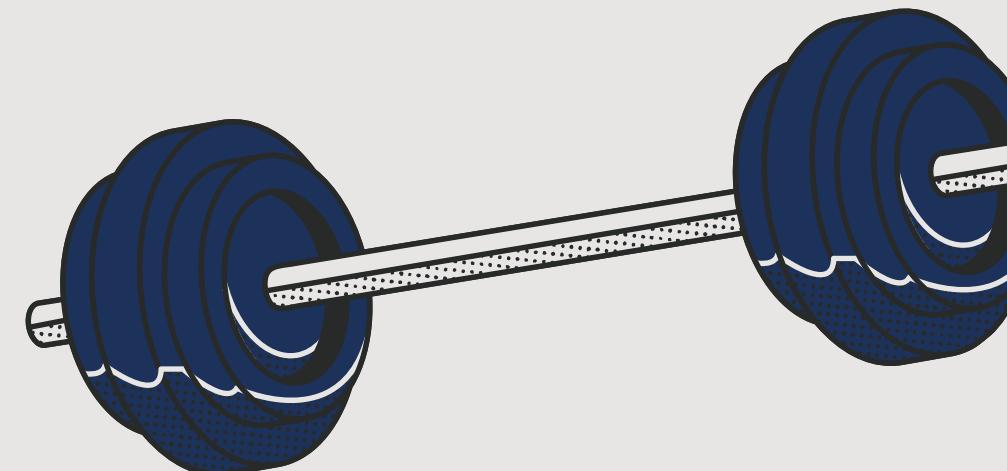
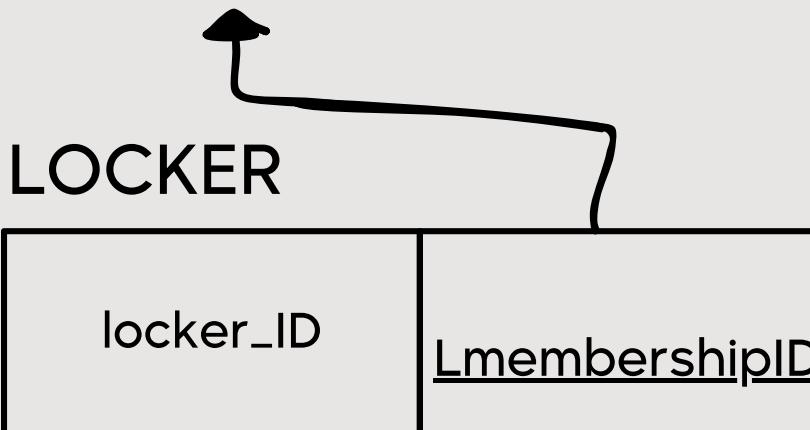
LOCKER

lockerNo

STEP 3: MAPPING 1:1 RELATIONSHIP TYPES:

MEMBER

<u>membershipID</u>	idNumber	firstName	LastName	age
---------------------	----------	-----------	----------	-----



STEP 4: MAPPING OF 1:N:

MEMBER

<u>membershipID</u>	MPlanID	idNumber	age	Lname	fName
---------------------	---------	----------	-----	-------	-------



WORKOUT_PLAN

<u>PlanID</u>	price	StartDate	endDate	Name
---------------	-------	-----------	---------	------



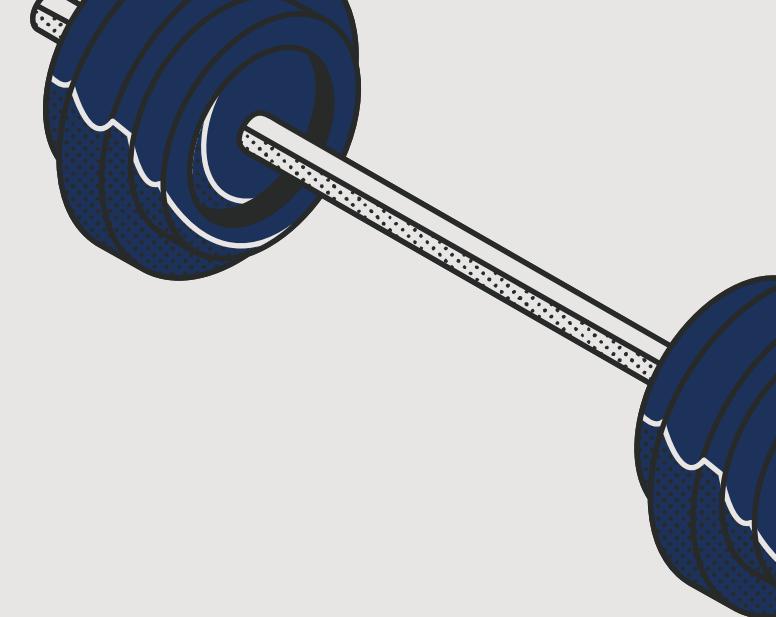
MEMBER

<u>membershipID</u>	idNumber	firstName	LastName	age	M_PackageID	Register_Date	MPlanID
---------------------	----------	-----------	----------	-----	-------------	---------------	---------

PACKAGE



<u>PackageID</u>	PackageName	Period	cost	age
------------------	-------------	--------	------	-----



STEP 5: MAPPING OF BINARY M:N RELATIONSHIP TYPES

CLASS

<u>ClassID</u>	Date	Time
----------------	------	------



COACH

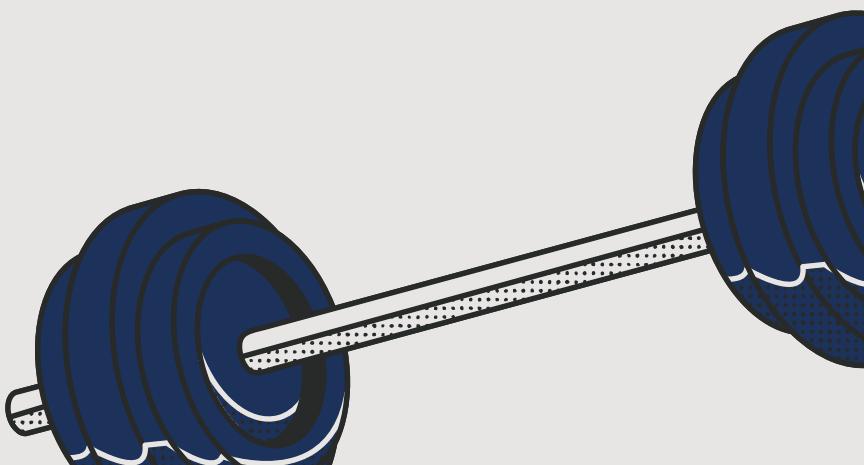
<u>idNumber</u>	FirstName	lastName	Salary
-----------------	-----------	----------	--------



Includes

<u>IClassID</u>	<u>IDNumber</u>
-----------------	-----------------

PK



STEP 6:MAPPING OF MULTIVALUED ATTRIBUTES:

Member_PhoneNo

<u>membershipID</u>	<u>PhoneNo</u>
---------------------	----------------

COACH_PhoneNo

<u>coachIDNo</u>	<u>PhoneNo</u>
------------------	----------------

STEP 7:MAPPING OF N_ARAY ATTRIBUTES:

includes_Nary

<u>ClassID</u>	<u>PlanID</u>	<u>coachIDNo</u>
----------------	---------------	------------------

FINAL MAPPING

MEMBER

<u>membershipID</u>	idNumber	FirstName	LastName	age	PACKAGE ID	Plan ID	lockerNo
---------------------	----------	-----------	----------	-----	------------	---------	----------

LOCKER

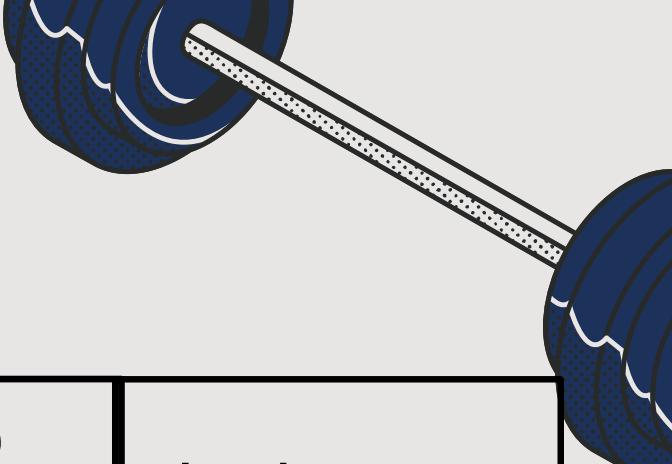
lockerNo

Member_phoneNo

<u>membershipID</u>	<u>PhoneNo</u>
---------------------	----------------

PACKAGE

Cost	PackageName	Period	<u>PackageID</u>
------	-------------	--------	------------------



FINAL MAPPING

COACH

<u>IdNumber</u>	fName	lName	Salary	<u>ID Number</u>
-----------------	-------	-------	--------	------------------

Coach_phoneNo

<u>ID Number</u>	<u>PhoneNo</u>
------------------	----------------

WOROUT_PLAN

<u>PlanID</u>	StartDate	endDate	Price	name
---------------	-----------	---------	-------	------

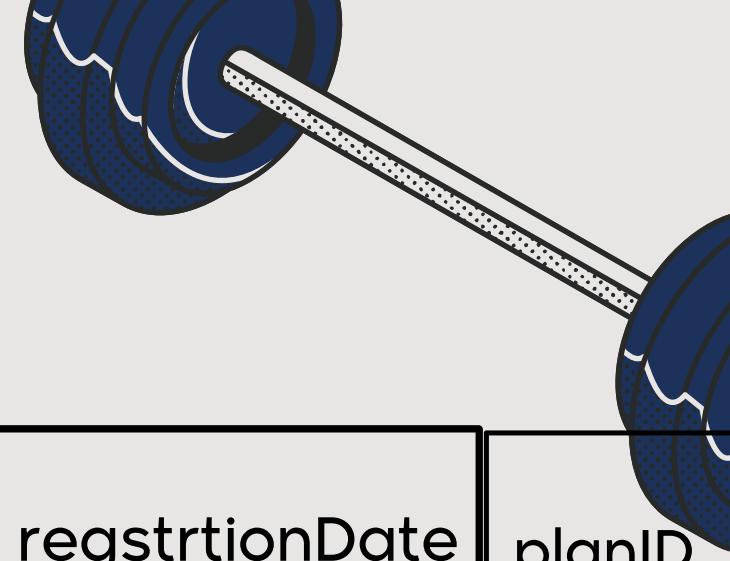
CLASS

<u>Class ID</u>	ClassName	Date	Time
-----------------	-----------	------	------

Includes

<u>Class ID</u>	<u>ID Number</u>	<u>PlanID</u>
-----------------	------------------	---------------

NORMALIZATION



member

<u>membershipID</u>	idNumber	fName	Lname	age	PackagelD	regstrtionDate	planID
---------------------	----------	-------	-------	-----	-----------	----------------	--------

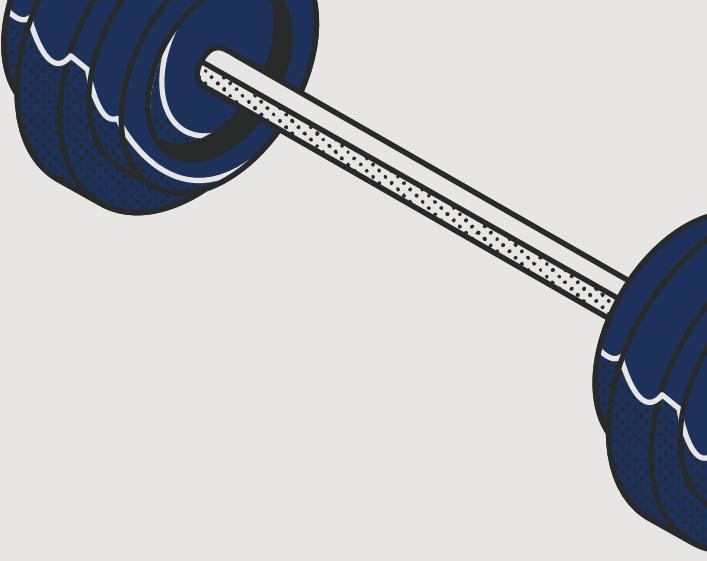
meber_phoneNo

<u>membershipID</u>	PhoneNo
---------------------	---------

no multivalued attribute was found therefor the table in 1NF
There is no partial dependency therefor the table in 2NF There is
no transitive dependency therefor the table in 3NF

locker_ID	<u>membershipID</u>
-----------	---------------------

No multivalued attribute was found therefor the table in 1NF There is no
partial dependency therefor the table in 2NF
There is no transitive dependency therefor the table in 3NF



CLASS

CLASSID	clssname	date	time
---------	----------	------	------

No multivalued attributes was found therefore the table in the 1NF

There is no partial dependency therefore the table in the 2NF

There is no transitive dependency therefor the table in the 3NF

INCLUDES

CoachID	classID	planId
---------	---------	--------

No multivalued attribute was found therefor the table in 1NF

There is no partial dependency therefor the table in 2NF

There is no transitive dependency therefor the table in 3NF

COACH

<u>idNumber</u>	FirstName	lastName	Salary

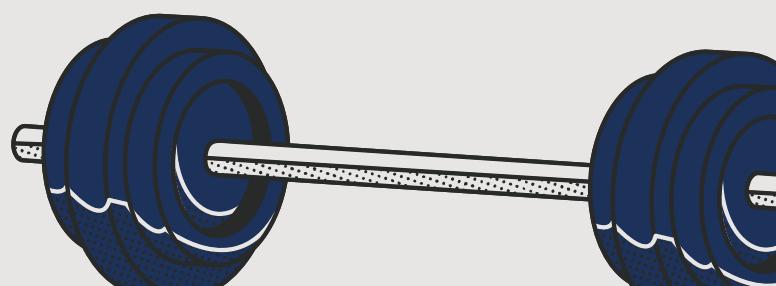
Coach_phoneNo

<u>coachIDNo</u>	<u>PhoneNo</u>

No multivalued attributes was found therefore the table in the 1NF

There is no partial dependency therefore the table in the 2NF

There is no transitive dependency therefor the table in the 3NF



PACKAGE

PackagelD	PackageName	Period	cost	age

No multivalued attributes was found therefore the table in the 1NF

There is no partial dependency therefore the table in the 2NF

There is no transitive dependency therefor the table in the 3NF

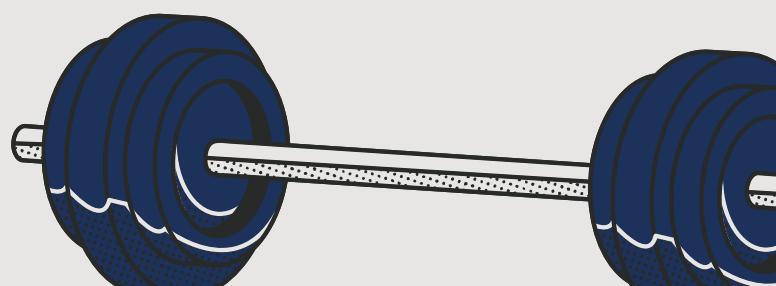
WORKOUT_PLAN

PlanID	StartDate	endDate	Price	name

No multivalued attributes was found therefore the table in the 1NF

There is no partial dependency therefore the table in the 2NF

There is no transitive dependency therefor the table in the 3NF

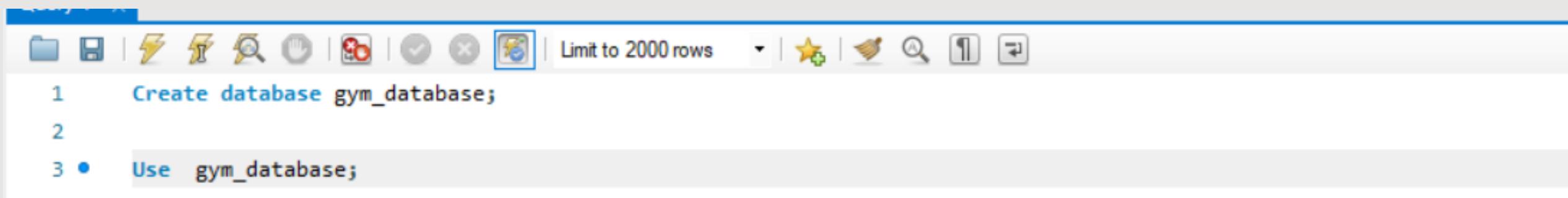


PHASE 3



CREATE SCHEMA

In your MySQL Workbench create the project database/schema using CREATE SCHEMA, and create the schema tables using CREATE TABLE.



A screenshot of the MySQL Workbench interface. The top menu bar includes icons for file, edit, search, and database operations. Below the menu is a toolbar with various icons. The main area shows a SQL editor with the following code:

```
1 Create database gym_database;
2
3 • Use gym_database;
```



CREATE TABLE

SQL File 1*

```
CREATE TABLE COACH (
    COACH_idNumber INT PRIMARY KEY,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255) NOT NULL,
    PhoneNo VARCHAR(20) NOT NULL
);
```

SQLAdditions:

- CREATE TABLE UsersTbl2 (...)
- CREATE TABLE Seller (...)
- CREATE TABLE Seller (...)
- CREATE TABLE Medication1 (...)

Output

#	Time	Action	Message	Duration / Fetch
1	20:27:48	CREATE TABLE Locker(lockerID INT PRIMARY KEY)	0 row(s) affected	0.047 sec
2	20:29:37	CREATE TABLE COACH (COACH_idNumber INT PRIMARY KEY, FirstName VARCHAR(...)	0 row(s) affected	0.031 sec

SQL File 1*

```
CREATE TABLE Locker(
    lockerID INT PRIMARY KEY
);
```

SQLAdditions:

- CREATE TABLE UsersTbl2 (...)
- CREATE TABLE Seller (...)
- CREATE TABLE Seller (...)
- CREATE TABLE Medication1 (...)

Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

CREATE TABLES

SQL File 1* x

CREATE TABLE MEMBER (membership_id INT PRIMARY KEY, COACH_idNumber INT NOT NULL, lockerID INT NOT NULL, LastName VARCHAR(255) NOT NULL, FirstName VARCHAR(255) NOT NULL, PhoneNo VARCHAR(20) NOT NULL, age INT, FOREIGN KEY (COACH_idNumber) REFERENCES COACH(COACH_idNumber), FOREIGN KEY (lockerID) REFERENCES Locker(lockerID));

SQLAdditions... My Snippets

CREATE TABLE UsersTbl2 (User...
CREATE TABLE Seller (Seller_I...
CREATE TABLE Seller (Seller_I...
CREATE TABLE Medication1 (...

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:36:56	CREATE TABLE MEMBER (membership_id INT PRIMARY KEY, COACH_idNumber INT...)	0 row(s) affected	0.079 sec

CREATE TABLES

The screenshot shows a SQL development environment with two panes. The left pane displays the SQL code for creating the `CLASS` table:

```
1 • CREATE TABLE CLASS (
2     ClassID INT PRIMARY KEY,
3     COACH_idNumber INT NOT NULL,
4     ClassDate DATE,
5     Time TIME,
6     FOREIGN KEY (COACH_idNumber) REFERENCES COACH(COACH_idNumber)
7 );
8
```

The right pane shows a snippet library titled "My Snippets" with several pre-defined SQL snippets, including ones for creating tables for `UsersTbl2`, `Seller`, and `Medication1`.

The bottom pane shows the "Output" window with the results of the execution:

Action Output	#	Time	Action	Message	Duration / Fetch
	1	20:33:37	CREATE TABLE CLASS (ClassID INT PRIMARY KEY, COACH_idNumber INT NOT NUL...	0 row(s) affected	0.078 sec

The screenshot shows a SQL development environment with two panes. The left pane displays the SQL code for creating the `PACKAGE` table:

```
1 • CREATE TABLE PACKAGE (
2     PackageID INT PRIMARY KEY,
3     PackageName VARCHAR(255) NOT NULL,
4     Period INT,
5     Cost DECIMAL(10,2)
6 );
```

The right pane shows a snippet library titled "My Snippets" with several pre-defined SQL snippets, including ones for creating tables for `UsersTbl2`, `Seller`, and `Medication1`.

The bottom pane shows the "Output" window with the results of the execution:

Action Output	#	Time	Action	Message	Duration / Fetch
	1	20:27:48	CREATE TABLE Locker(lockerID INT PRIMARY KEY)	0 row(s) affected	0.047 sec
	2	20:29:37	CREATE TABLE COACH (COACH_idNumber INT PRIMARY KEY, FirstName VARCHAR(...	0 row(s) affected	0.031 sec
	3	20:31:16	CREATE TABLE PACKAGE (PackageID INT PRIMARY KEY, PackageName VARCHAR... 0 row(s) affected		0.031 sec

INSERT

The image displays four separate SQL management tool windows, each showing the results of an `INSERT` operation.

Top Left Window: Shows an `INSERT INTO MEMBER` query with 5 rows of data. The data includes membership_id, COACH_idNumber, lockerID, LastName, FirstName, PhoneNo, and age. The results show 5 rows affected.

membership_id	COACH_idNumber	lockerID	LastName	FirstName	PhoneNo	age
1	1	1	Al-Mansoori	Refal	+966501234567	25
2	2	2	Al-Saud	Jumanah	+966502345678	28
3	3	3	Abdulaziz	Hoor	+966503456789	32
4	4	4	Al-Rashed	Deema	+966504567890	30
5	5	5	Al-Farsi	Remas	+966505678901	27

Top Right Window: Shows an `INSERT INTO COACH` query with 5 rows of data. The data includes COACH_idNumber, FirstName, LastName, and PhoneNo. The results show 5 rows affected.

COACH_idNumber	FirstName	LastName	PhoneNo
1	Refal	Al-Mansoori	+966501234567
2	Jumanah	Al-Saud	+966502345678
3	Hoor	Abdulaziz	+966503456789
4	Deema	Bakhya	+966504567890
5	Remas	Al-Farsi	+966505678901

Bottom Left Window: Shows an `INSERT INTO Locker` query with 5 rows of data. The data includes lockerID. The results show 5 rows affected.

lockerID
1
2
3
4
5

Bottom Right Window: Shows an `CREATE TABLE WORKOUT_PLAN` query with 0 rows affected. It also shows an `INSERT INTO WORKOUT_PLAN` query with 0 rows affected.

PlanID	Name	Period	Cost
1	Basic Package	1 Month	\$100
2	Advanced Package	3 Months	\$300
3	Premium Package	6 Months	\$500
4	Ultimate Package	1 Year	\$1000

INSERT:

The screenshot shows a SQL development environment with two panes. The top pane contains the following SQL code:

```
1 • INSERT INTO PACKAGE (PackageID, PackageName, Period, Cost) VALUES  
2     (1, 'Basic Package', 30, 150.00),  
3     (2, 'Intermediate Package', 60, 250.00),  
4     (3, 'Advanced Package', 90, 400.00),  
5     (4, 'Premium Package', 120, 600.00),  
6     (5, 'Ultimate Package', 180, 800.00);
```

The bottom pane displays the results of the query in a "Result Grid". The grid has columns: PackageID, PackageName, Period, and Cost. The data is as follows:

	PackageID	PackageName	Period	Cost
▶	1	Basic Package	30	150.00
▶	2	Intermediate Package	60	250.00
▶	3	Advanced Package	90	400.00
▶	4	Premium Package	120	600.00
▶	5	Ultimate Package	180	800.00
*	NULL	NULL	NULL	NULL

The screenshot shows a SQL development environment with two panes. The top pane contains the following SQL code:

```
1 • CREATE TABLE CLASS (  
2     ClassID INT PRIMARY KEY,  
3     COACH_idNumber INT NOT NULL,  
4     ClassDate DATE,  
5     Time TIME,  
6     FOREIGN KEY (COACH_idNumber) REFERENCES COACH(COACH_idNumber)  
7 );
```

The bottom pane displays the results of the query in a "Result Grid". The grid has columns: ClassID, COACH_idNumber, ClassDate, and Time. The data is as follows:

	ClassID	COACH_idNumber	ClassDate	Time
▶	1	1	2024-02-10	10:00:00
▶	2	2	2024-02-13	11:00:00
▶	3	3	2024-02-17	12:00:00
▶	4	4	2024-02-18	11:00:00
▶	5	5	2024-02-19	11:00:00
*	NULL	NULL	NULL	NULL

INSERT DATA:

insert query

The screenshot shows a SQL database interface with the following details:

Query Editor:

```
1 • INSERT INTO WORKOUT_PLAN (PlanID, Name, membership_id, StartDate, EndDate, Price) VALUES
2 (1, 'Beginner Plan', 1, '2024-02-01', '2024-03-01', 50),
3 (2, 'Intermediate Plan', 2, '2024-02-15', '2024-04-15', 80),
4 (3, 'Advanced Plan', 3, '2024-03-01', '2024-06-01', 120),
5 (4, 'Expert Plan', 4, '2024-03-15', '2024-09-15', 180),
6 (5, 'Pro Plan', 5, '2024-04-01', '2024-12-01', 250);
```

Action Output:

#	Time	Action	Message	Duration / Fetch
1	20:39:26	CREATE TABLE WORKOUT_PLAN(PlanID INT PRIMARY KEY, Name VARCHAR(100) ...)	0 row(s) affected	0.078 sec
2	20:46:30	INSERT INTO Locker (lockerID) VALUES (1), (2), (3), (4), (5)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
3	20:47:53	INSERT INTO COACH (COACH_idNumber, FirstName, LastName, PhoneNo) VALUES (1, 'R...', 'R...', '123456789')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
4	20:48:37	INSERT INTO PACKAGE (PackageID, PackageName, Period, Cost) VALUES (1, 'Basic Pac...', '1 Month', 50)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
5	20:49:34	INSERT INTO MEMBER (membership_id, COACH_idNumber, lockerID, LastName, FirstName, StartDate, EndDate, Price) VALUES (1, 1, 1, 'Doe', 'John', '2024-02-01', '2024-03-01', 50)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
6	20:50:09	INSERT INTO WORKOUT_PLAN (PlanID, Name, membership_id, StartDate, EndDate, Price) VALUES (1, 'Beginner Plan', 1, '2024-02-01', '2024-03-01', 50)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec

After insert data

The screenshot shows a SQL database interface with the following details:

Result Grid:

	PlanID	Name	membership_id	StartDate	EndDate	Price
1	1	Beginner Plan	1	2024-02-01	2024-03-01	50
2	2	Intermediate Plan	2	2024-02-15	2024-04-15	80
3	3	Advanced Plan	3	2024-03-01	2024-06-01	120
4	4	Expert Plan	4	2024-03-15	2024-09-15	180
5	5	Pro Plan	5	2024-04-01	2024-12-01	250
	NULL	NULL	NULL	NULL	NULL	NULL

QUERIES

Update data in the COACH table:

The screenshot shows the COACH table in a result grid. The table has four columns: COACH_idNumber, FirstName, LastName, and PhoneNo. There are five rows of data, plus a header row and a footer row with NULL values.

	COACH_idNumber	FirstName	LastName	PhoneNo
▶	1	Refal	Al-Mansoori	+966501234567
2	Jumanah	Al-Saud	+966502345678	
3	Hoor	Abdulaziz	+966503456789	
4	Deema Bakhyer	Al-Rashed	+966504567890	
5	Remas	Al-Farsi	+966505678901	
●	NULL	NULL	NULL	NULL

Update phone number for COACH with ID 1

The screenshot shows the SQL query in the SQL tab of MySQL Workbench. The query is:

```
1 • UPDATE COACH SET PhoneNo = '+966523467221' WHERE COACH_idNumber = 1;
```

The screenshot shows the COACH table in a result grid after the update. The phone number for COACH ID 1 has been updated to +966523467221.

	COACH_idNumber	FirstName	LastName	PhoneNo
▶	1	Refal	Al-Mansoori	+966523467221
2	Jumanah	Al-Saud	+966502345678	
3	Hoor	Abdulaziz	+966503456789	
4	Deema Bakhyer	Al-Rashed	+966504567890	
5	Remas	Al-Farsi	+966505678901	
●	NULL	NULL	NULL	NULL

QUERIES

Update data in the member table:

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

	membership_id	COACH_idNumber	lockerID	LastName	FirstName	PhoneNo	age
▶	1	1	1	Al-Mansoori	Refal	+966501234567	25
2	2	2	Al-Saud	Jumanah	+966502345678	28	
3	3	3	Abdulaziz	Hoor	+966503456789	32	
4	4	4	Al-Rashed	Deema	+966504567890	30	
5	5	5	Al-Farsi	Remas	+966505678901	27	
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

member 5

UPDATE MEMBER SET age = 20 WHERE membership_id = 3;

SELECT * FROM member

Limit to 2000 rows

1 UPDATE MEMBER SET age = 20 WHERE membership_id = 3;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

	membership_id	COACH_idNumber	lockerID	LastName	FirstName	PhoneNo	age
▶	1	1	1	Al-Mansoori	Refal	+966501234567	25
2	2	2	2	Al-Saud	Jumanah	+966502345678	28
3	3	3	3	Abdulaziz	Hoor	+966503456789	20
4	4	4	4	Al-Rashed	Deema	+966504567890	30
5	5	5	5	Al-Farsi	Remas	+966505678901	27
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

member 12

QUERIES

Delete data from the PACKAGE table:

Result Grid | Filter Rows: Edit:

	PackageID	PackageName	Period	Cost
▶	1	Basic Package	30	150.00
	2	Intermediate Package	60	250.00
	3	Advanced Package	90	400.00
	4	Premium Package	120	600.00
	5	Ultimate Package	180	800.00
●	NUL	NUL	NUL	NUL

-- Delete package with ID 4
DELETE FROM PACKAGE WHERE PackageID = 4;

1 DELETE FROM PACKAGE WHERE PackageID = 4;

Result Grid | Filter Rows: Edit:

	PackageID	PackageName	Period	Cost
▶	1	Basic Package	30	150.00
	2	Intermediate Package	60	250.00
	3	Advanced Package	90	400.00
	5	Ultimate Package	180	800.00
●	NUL	NUL	NUL	NUL

QUERIES

Select data with WHERE clause:

The screenshot shows a 'Result Grid' window with the following data:

	COACH_idNumber	FirstName	LastName	PhoneNo
▶	1	Refal	Al-Mansoori	+966501234567
2	Jumanah	Al-Saud	+966502345678	
3	Hoor	Abdulaziz	+966503456789	
4	Deema Bakhyer	Al-Rashed	+966504567890	
5	Remas	Al-Farsi	+966505678901	
●	NULL	NULL	NULL	NULL

-- Select coaches with last name 'Al-Saud'

```
SELECT * FROM COACH WHERE LastName = 'Al-Saud';
```

The screenshot shows the SQL query being run:

```
1  SELECT * FROM COACH WHERE LastName = 'Al-Saud';
```

The screenshot shows a 'Result Grid' window with the following data, corresponding to the row where LastName = 'Al-Saud' from the previous query:

	COACH_idNumber	FirstName	LastName	PhoneNo
▶	2	Jumanah	Al-Saud	+966502345678
●	NULL	NULL	NULL	NULL

QUERIES

Select data with ORDER BY:

	membership_id	COACH_idNumber	lockerID	LastName	FirstName	PhoneNo	age
▶	1	1	1	Al-Mansoori	Refal	+966501234567	25
2	2	2	2	Al-Saud	Jumanah	+966502345678	28
3	3	3	3	Abdulaziz	Hoor	+966503456789	32
4	4	4	4	Al-Rashed	Deema	+966504567890	30
*	5	5	5	Al-Farsi	Remas	+966505678901	27
	NUL	NUL	NUL	NUL	NUL	NUL	NUL

member 5 x

-- Select members ordered by age in descending order

```
SELECT * FROM MEMBER ORDER BY age DESC;
```

1 SELECT * FROM MEMBER ORDER BY age DESC;

	membership_id	COACH_idNumber	lockerID	LastName	FirstName	PhoneNo	age
▶	4	4	4	Al-Rashed	Deema	+966504567890	30
2	2	2	2	Al-Saud	Jumanah	+966502345678	28
5	5	5	5	Al-Farsi	Remas	+966505678901	27
1	1	1	1	Al-Mansoori	Refal	+966501234567	25
3	3	3	3	Abdulaziz	Hoor	+966503456789	20
*	NUL	NUL	NUL	NUL	NUL	NUL	NUL

QUERIES

Select data with a subquery:

The screenshot shows a MySQL Workbench interface with a result grid titled 'Result Grid'. The grid has columns: COACH_idNumber, FirstName, LastName, and PhoneNo. There are 5 rows of data:

	COACH_idNumber	FirstName	LastName	PhoneNo
>	1	Refal	Al-Mansoori	+966501234567
	2	Jumanah	Al-Saud	+966502345678
	3	Hoor	Abdulaziz	+966503456789
	4	Deema Bakhyer	Al-Rashed	+966504567890
	5	Remas	Al-Farsi	+966505678901
	NULL	NULL	NULL	NULL

-- Select coaches who have members with age greater than 25

```
SELECT * FROM COACH WHERE COACH_idNumber IN (SELECT COACH_idNumber FROM MEMBER WHERE age > 25);
```

```
SELECT * FROM COACH WHERE COACH_idNumber IN (SELECT COACH_idNumber FROM MEMBER WHERE age > 25);
```

The screenshot shows a MySQL Workbench interface with a result grid titled 'Result Grid'. The grid has columns: COACH_idNumber, FirstName, LastName, and PhoneNo. There are 3 rows of data, corresponding to the coaches with members aged 25 or older:

	COACH_idNumber	FirstName	LastName	PhoneNo
>	2	Jumanah	Al-Saud	+966502345678
	4	Deema Bakhyer	Al-Rashed	+966504567890
	5	Remas	Al-Farsi	+966505678901
	NULL	NULL	NULL	NULL

QUERIES

Select data with INNER JOIN:

A screenshot of a database query results grid. The grid has a header row with columns: COACH_idNumber, FirstName, LastName, and PhoneNo. Below the header are five data rows, each containing a value for each column. Row 1: COACH_idNumber 1, FirstName Refal, LastName Al-Mansoori, PhoneNo +966501234567. Row 2: COACH_idNumber 2, FirstName Jumanah, LastName Al-Saud, PhoneNo +966502345678. Row 3: COACH_idNumber 3, FirstName Hoor, LastName Abdulaziz, PhoneNo +966503456789. Row 4: COACH_idNumber 4, FirstName Deema Bakhyer, LastName Al-Rashed, PhoneNo +966504567890. Row 5: COACH_idNumber 5, FirstName Remas, LastName Al-Farsi, PhoneNo +966505678901. The last row is a blank row with all columns set to NULL.

	COACH_idNumber	FirstName	LastName	PhoneNo
▶	1	Refal	Al-Mansoori	+966501234567
	2	Jumanah	Al-Saud	+966502345678
	3	Hoor	Abdulaziz	+966503456789
	4	Deema Bakhyer	Al-Rashed	+966504567890
	5	Remas	Al-Farsi	+966505678901
	NULl	NULl	NULl	NULl

-- Select members along with their coach information

```
SELECT COACH.FirstName AS CoachFirstName, COACH.LastName AS CoachLastName  
FROM MEMBER  
INNER JOIN COACH ON MEMBER.COACH_idNumber = COACH.COACH_idNumber;
```

A screenshot of a database query results grid. The grid has a header row with columns: CoachFirstName and CoachLastName. Below the header are five data rows, each containing a value for each column. Row 1: CoachFirstName Refal, CoachLastName Al-Mansoori. Row 2: CoachFirstName Jumanah, CoachLastName Al-Saud. Row 3: CoachFirstName Hoor, CoachLastName Abdulaziz. Row 4: CoachFirstName Deema Bakhyer, CoachLastName Al-Rashed. Row 5: CoachFirstName Remas, CoachLastName Al-Farsi.

	CoachFirstName	CoachLastName
▶	Refal	Al-Mansoori
	Jumanah	Al-Saud
	Hoor	Abdulaziz
	Deema Bakhyer	Al-Rashed
	Remas	Al-Farsi

DIFFICULTIES THAT WE FACED

- Difficulty dealing with mySQL workbench where some error messages appear with no error actually.
- Each member writes her part in SQL differently and when compiling the code some-2 errors occur that needs huge work to fix

DB SCHEMA

