FitRITE LIFE DATABASE DESIGN

GROUP #2



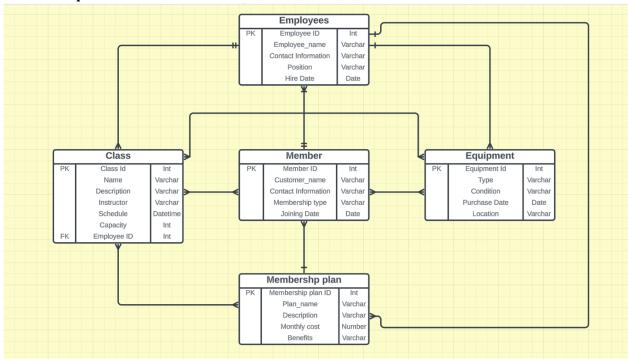
CONTACT PERSON ON FINAL PROJECT REPORT

email:

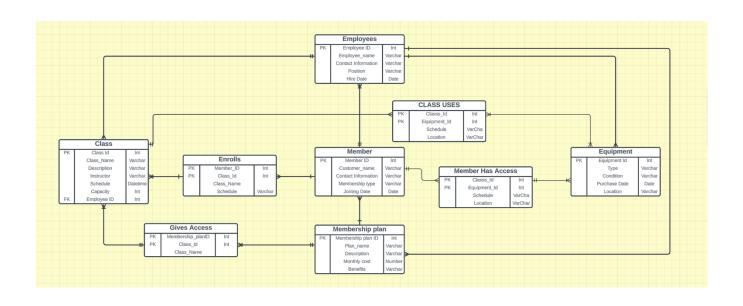
PART A

E-R DIAGRAM (CROW'S NOTATION)

Relationships M:N



Relationships with entities bridges



PART B

RELATIONAL SCHEMA

1- MEMBERS (MEMBER_ID, CusName, Customer_Phone, Cust_Address, MembType, EnrollDate)

MEMBER_ID	PHONE NUMBER	Cus_Address
1001	(214) 009-4433	201 MAIN ST DALLAS TX

MEMBER_ID	МемвТүре	ENROLLDATE
1001	PREMIUM	01/01/2024

MEMBER_ID	CUSNAME
1001	MIKE SULLIVAN

2-EMPLOYEES (EMPLOYEE_ID, EmployeeName, ContactInfo, Position, HiringDate)

EMPLOYEE_ID	EMPLOYEE_PHONE	EMPLOYEE_ADDRESS
2001	(213) 221-0099	100 E DALLAS ST DALLAS TX

EMPLOYEE_ID	EMPLOYEENAME
2001	Tom Jhonson

EMPLOYEE_ID	Position	HIRINGDATE
2001	RECEPCIONIST	10/22/2018

3-CLASSES (CLASS_ID , Class_Name, Description, Instructor, Schedule, Capacity)

CLASS_ID	CLASS_NAME
3001	Boxing

CLASS_ID	CLASS_DESCRIPTION
3001	COMBAT WORKOUT

CLASS_ID	CLASS_INSTRUCTOR	CLASS_SCHEDULE	CLASS_CAPACITY
3001	JHON PEREZ	Mon-Wed 8:00 - 8:30 pm	10

4- EQUIPTMENT (EQUIPTMENT_ID , Equiptment_type , Equitment_Condition, Date_Purchased , Equipment_location.)

EQUIPMENT_ID	EQUITMENT_TYPE	CONDITION	DATE_PURSCHASED	LOCATION
4001	TREADMILL	Working	04/27/2024	CARDIO_ROOM

EQUIPMENT_ID	CONDITION	DATE_PURSCHASED
4001	Working	04/27/2024

EQUIPMENT_ID	EQUITMENT_TYPE	LOCATION
4001	TREADMILL	CARDIO_ROOM

5- MEMBERSHIP PLAN (PLAN_ID , Plan_Name, Plan_Description, Plan_Cost , Plan_Benefits)

MEMBERSHIP_ID	PLAN_NAME	PLAN_DESCRIPTION	PLAN_COST	PLAN_BENEFIT
5001	STANDAR	BASIC MEMBERSHIP	\$20	GENERAL ACCESS / POOL RESTRICTION

MEMBERSHIP_ID	PLAN_NAME	PLAN_COST
5001	STANDAR	\$20

MEMBERSHIP_ID	PLAN_DESCRIPTION	PLAN_BENEFIT
5001	STANDAR MEMBERSHIP	GENERAL ACCESS / POOL RESTRICTION

<mark>PART C</mark>

DATA DICTIONARY

		DATA DICTION	IARY FOR DA	TABASE FitRIT	E Life			
TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK / FK	FK REFERENCE TABLE
MEMBERS	MEMBER_ID	Member ID	INTEGER	###	0-999	Y	PK	CLASSES
	Cus_Name	Customer Name	VARCHAR(35)	Text	NA	Y		
	Customer_Phone	Customer Phone	VARCHAR(20)	Text	NA	Y		
	Customer_Addres	Customer Address	VARCHAR(50)	Text	NA	Y		
	Memb_Type	Plan the Member has	VARCHAR(20)	Text	NA	Y	FK	MEMBERSHIP
	Enroll_Date	Date Member joined	DATE	DD-MON-YYYY	NA	Y		
EMPLOYEES	EMPLOYEE_ID	Employee ID's	INTEGER	####	1000-1099	Υ	PK	
	Employee_Name	Employee Name	VARCHAR(35)	Text	NA	Y	FK	CLASSES
	Contact_Info	Contact info fo Employee	VARCHAR(100)	Text	NA	Y		
	Position	Position Title	VARCHAR(30)	Text	NA	Y		
	Hiring_Date	Employee Hired Date	DATE	DD-MON-YYYY	NA	Y		
MEMBERSHIP	PLAN ID	Plan ID	INTEGER	####	NA	Y	PK	
11211221101111	Plan Name	Plan Name	VARCHAR(35)	Text	107	Y	FK	MEMBERS
	Plan Description	Plan Description	VARCHAR(35)	Text	NA	Y		
	Plan Cost	Monthly Cost	Currency	\$0,000.00	NA	Y		
	Plan_Benefit	Classes Access	VARCHAR(30)	Text	NA	•		
CLASSES	CLASS ID	Classes ID	INTEGER	####	NA	Υ	PK	
	Class Name	Class Name	VARCHAR(35)	Text		Y		
	Class Description	Description of the class	VARCHAR(35)	Text	NA	Υ		
	Class Instructor	Instrutor name	VARCHAR(100)	Text	NA	Y	FK	EMPLOYEES
	Class_Schedule	Class Schedule	VARCHAR(30)	DD-MON-YYYY	NA	Y		
	Class_Capacity	Max Class Ocupancy	INTEGER	####	NA	Y		
	Member_Info	Member enrolled in class	INTEGER	###	0-999	Y	FK	MEMBERS
EQUIPTMENT	EQUIPTMENT_ID	Equitment_ID	INTEGER	####	NA	Υ	PK	
	Equipment_Type	Type Of Equitment	VARCHAR(35)	Text		Y		
	Equipment_Condition	Codition of Equitmernt	VARCHAR(5)	Text	NA	Y		
	Date_Purchased	Date Purchased	DATE	DD-MON-YYYY	NA	Y		
	Equipment_Location	Location of the equitment	VARCHAR(35)	Text	NA			

PART D.

SQL QUERIES SCREENSHOTS

1- Member

SQL> DESCRIBE MEMBER; Name				Null?	Type	
MEMBER ID CUSTOMER_NAME CUSTOMER_PHONE CUSTOMER_ADDRESS CUSTOMER_STATE MEMBERSHIP_TYPE ENROLL_DATE POINTS				NOT NU	LL NUMBER (38) LL VARCHAR2 (35) LL VARCHAR2 (20) LL VARCHAR2 (50) LL VARCHAR2 (15) LL VARCHAR2 (20) LL DATE LL NUMBER (38)	
SQL> SELECT * FROM MEMBER;						
MEMBER_ID\CUSTOMER_NAME	\CUSTOMER_PHONE	\CUSTOMER_ADDRESS		\MEMBERSHIP_TYPE	\ENROLL_DA\	POINTS
1001\CALEB ROE 1002\ERIK HUNTLEY 1003\EMMA JOHNSON 1004\KELLY KLIEN 1005\JAMES SMITH 1006\JANE DOE 1007\ROB SMITH 1008\ANTHONY FLORES	\\\ 4698980114 \\ 4697571898 \\ 2145137759 \\ 3149894459 \\ 4157898899 \\ 2145456547 \\ 3130049030 \\ 5159097789	\201 MAIN ST DALLAS TX 76039 \8851 MOON CT FT WORTH TX 75025 \202 ALDERWOOD LANE OKLAHOMA CITY OK 73151 \587 SE RIVER STREET BROOKLYN NY 11228 \11 DEVON STREET LOCKPORT NY 14094 \7475 FULTON STREET BRANDON FL 33511 \427 S BRANCH AVENUE MIAMI BEACH FL 33139 \8851 FOREST LN DALLAS TX 74039	TEXAS \TEXAS \OAKHLOHOMA \NEW YORK \NEW YORK \FLORIDA \FLORIDA \TEXAS	\PREMIUM \SILVER \GOLD \SILVER \GOLD \PREMIUM \GOLD \PREMIUM	\01-FEB-20\\15-JAN-23\\05-JUN-21\\03-JAN-23\\\15-APR-22\\01-APR-20\\08-JUL-22\\09-SEP-21\\	100 60 80 60 80 100 80
8 rows selected.						

2- Employees

SQL> DESCRIBE EMPLOYEE; Name		Null?	Type	
EMPLOYEE ID EMPLOYEE NAME CONTACT INFORMATION POSITION HIRING_DATE		NOT NULL	NUMBER (38) VARCHAR2 (35) VARCHAR2 (100) VARCHAR2 (30) DATE	
SQL> SELECT * FROM EMPLOYEE;				
EMPLOYEE_ID\EMPLOYEE_NAME	\CONTACT_INFORMATION	\POSITION		\HIRING_DA
2001\JOSH MENDOZA 2002\ANTHONY YEUING 2003\DHUNDUP TASHI 2004\MARVIN AMAYA 2005\HARRIS FORD	\3321 DALLAS DR DALLAS,TX,74059 \7721 FLORENCE DR IRVING,TX,73221 \416 W NORTHGATE DR FLANO, TX,78309 \3225 FOREST HILL DR ADDISON,TX,75109 \213 PIPE RD DALLAS,TX,76029		INSTRUCTOR INSTRUCTOR	\\01-JAN-20 \\06-JUN-20 \\07-JUL-20 \\01-JAN-21 \\01-FEB-21

3-Class

SQL> DESCRIBE CLASS; Name					Null? Type	è
CLASS ID CLASS NAME CLASS DESCRIPTION CLASS INSTRUCTOR CLASS SCHEDULE CLASS CAPACITY EMPLOYEE ID SOL> SELECT * FROM CLASS;					NOT NULL NUMM NOT NULL VARC NOT NULL VARC NOT NULL VARC NOT NULL NUMM NUMM	CHAR2 (50) CHAR2 (100) CHAR2 (35) CHAR2 (100)
CLASS ID/CLASS NAME	\CLASS_DESCRIPTION					\CLASS_INSTRUCTOR
CLASS_SCHEDULE		\CLASS_CAPAG	CITY\EMPLO	YEE_ID		
3001\BOXING MON-WED 8:00AM - 9:00AM	\COMBAT AND WORKOUT					\ANTHONY YEUING
3002\DANCING FRI 5:00FM - 6:30FM	\HIP-HOP AND SALSA					\DHUNDUP TASHI
3003\AEROBICS IUE-THUR 1:00PM - 3:00PM	\INTENSE WORKOUT					\MARVIN AMAYA
3004\SWIMMING TUE-THUR 10:00AM - 11:00AM	\SWIMMING LESSONS					\HARRIS FORD
3005\YOGA MON-WED 5:00PM - 6:00PM	\IMPROVING FLEXIBILITY AND MOBILITY					\HARRIS FORD

4- Membership

```
SQL> DESCRIBE MEMBERSHIP;
Name

PLAN ID
PLAN NAME

PLAN DESCRIPTION

PLAN DESCRIPTION

SQL> SELECT * FROM MEMBERSHIP;

PLAN_ID\PLAN_NAME

PLAN_ID\PLAN_DESCRIPTION

SQL> SELECT * FROM MEMBERSHIP;

PLAN_ID\PLAN_NAME

PLAN_OST

PLAN_DESCRIPTION

SQL> SELECT * FROM MEMBERSHIP;

PLAN_ID\PLAN_NAME

A001\SILVER

4001\SILVER

4001\SILVER

4002\GOLD

MID-TIER BENEFITS

\SOLS

19.99\ACCESS TO THE GYM + POOL ACCESS

4003\PREMIUM

\TOP-TIER PERKS

\TOP-TIE
```

5- Equipment

SQL> DESCRIBE EQUIPMENT ; Name			Null?	Type
EQUIPMENT ID EQUIPMENT TYPE EQUIPMENT CONDITION PURCHASE DATE LOCATION SQL> SELECT * FROM EQUIPMENT;			NOT NULL NOT NULL	NUMBER (38) VARCHAR2 (50) VARCHAR2 (50) DATE VARCHAR2 (50)
	\EQUIPMENT_CONDITION	\PURCHASE_\LOCATION		
5001\ELLIPTICAL STATIONARY 5002\TREADMILL 5003\SQUAT MACHINE 5004\AB BENCH 5005\LEG CURL MACHINE 5006\BICEP MACHINE	WORKING VOUT OF SERVICE WORKING WORKING WORKING WORKING WORKING	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		

Part E

1)

USTOMER_NAME	\CUSTOMER_ADDRESS	\CUSTOMER_PHONE
	\\	\
CALEB ROE	\201 MAIN ST DALLAS TX 76039	\4698980114
ERIK HUNTLEY	\8851 MOON CT FT WORTH TX 75025	\4697571898
EMMA JOHNSON	\202 ALDERWOOD LANE OKLAHOMA CITY OK 73151	\2145137759
KELLY KLIEN	\587 SE RIVER STREET BROOKLYN NY 11228	\3149894459
JAMES SMITH	\11 DEVON STREET LOCKPORT NY 14094	\4157898899
JANE DOE	\7475 FULTON STREET BRANDON FL 33511	\2145456547
ROB SMITH	\427 S BRANCH AVENUE MIAMI BEACH FL 33139	\3130049030
ANTHONY FLORES	\8851 FOREST LN DALLAS TX 74039	\5159097789

2)

3)

SQL> SELECT CUSTOMER_STATE, MEMBERSHIP_TYPE, COUNT(*) AS NUM_CUSTOMERS FROM MEMBER GROUP BY CUSTOMER STATE, MEMBERSHIP TYPE ORDER BY CUSTOMER STATE, MEMBERSHIP TYPE; CUSTOMER STATE | MEMBERSHIP TYPE | NUM CUSTOMERS FLORIDA GOLD 1 FLORIDA PREMIUM NEW YORK GOLD NEW YORK SILVER OAKHLOHOMA GOLD TEXAS | PREMIUM TEXAS SILVER 7 rows selected.

USTOMER_NAME	MEMBERSHIP_TYPE		POINTS PREF	ERENCE
CALEB ROE	 PREMIUM		 100	2
ERIK HUNTLEY	SILVER		60	7
EMMA JOHNSON	GOLD		80	8
KELLY KLIEN	SILVER		60	4
JAMES SMITH	GOLD		80	3
JANE DOE	PREMIUM		100	9
ROB SMITH	GOLD		80	2
ANTHONY FLORES	PREMIUM		100	5

5)

When selecting a gold tier customer" **rob smith**" he had 2 preferences on the equipment and the points he earned is 80.

Now the recommendation would be to gain <u>preference</u> on the equipment and raise it up to 8 in order to gain "platinum" membership which would **unlock** all the platinum membership benefits.