CHECKPOINT1 Assignment

<u>Group Se7ven Members:</u> Luiz Gustavo Fagundes Malpele, Elijah Luckey, Thomas Sawyer, Gunnar Sundberg. Luiz will be responsible for uploading all the assignments on Canvas.

<u>Data Source:</u> The data gathered is representative of the <u>Database Rehabilitation Program</u> (A fictional rehabilitation program). The data we have to fill our table is also fictional as it would contain sensitive information such as name, date of birth, and social security number. Since this is the case, we will generate random client information. Our information is available to process immediately and will be placed in our database as soon as we begin implementation.

End-user Questions:

- How much progress has [insert resident name] made towards their graduation?
 Validity Check: Count the number of unique ClassSessionAttendence for this person.
 This number out of 16 is the progress they have made. This uses 'Client / Resident',
 'ClassSession', and 'ClassSessionAttendence' tables.
- What is the rate of graduation/successful completion of our program? Validity Check:
 For each person that has an exit date ('NOT NULL' / was a resident), count the number of people that have the status 'graduate' and the ratio of 'HAS exit_date' and 'graduate' will provide a graduation rate.
- 3. What is the average time of completion for each graduate? *Validity Check:* For each graduate, count the number of days between 'entry_date' and 'exit_date'. Divide that over the number of graduates.

Conceptual Design:

Data Dictionary:

Client (5 rows): Holds all clients' personal information

Attribute	Content	Туре	Format	Range	Requ	PK	FK
name					ired	or FK	Refere
							nced
							Table
id	Client's ID	INTEGER	999999	99999999	Υ	PK	
			999	-			
				100000000			
first_name	First name	VARCHAR(Xxxxxx		Υ		
		30)	xxxxxx				
middle_name	Middle	VARCHAR(Xxxxxx				
	name	30)	xxxxxx				

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last_name	Last name	VARCHAR(30)	Xxxxxx	Υ	
date_of_birt h	Date of birth	DATE	MM- DD- YYYY	Υ	
gender	Gender	CHAR(1)	Χ	Υ	
social_secur ity_number	social security number	INTEGER(4)	9999- 0000	Υ	
client_phase	Current client's status (applicant, resident, graduate or ejected)	CATEGORI CAL		Υ	

Contact (5 rows): Holds clients' contact information and a third-party emergency contact.

Attrib ute name	Contents	Type	Format	Range	Req uire d	PK or FK	FK Referenc ed Table
<pre>client _id (FK)</pre>	Client's ID	INTEGE R	999999999	999999999-	Υ	FK	Client
phone_ num	Phone number	INTEGE R(10)	(999)9999- 999	(000)0000- 000 - (999)9999- 999	Υ		
emerge ncy_nu m	Emergency contact's phone number	INTEGE R(10)	(999)9999- 999	(000)0000- 000 - (999)9999- 999	Υ		
email	Email	VARCH AR(40)	xxxxxxx@x xxx.xxx		Υ		
contac t_name	Emergency contact's name	VARCH AR(30)	Xxxxxxxxxx		Υ		

Residency (5 rows (?)): Relates the client to the operations in the organization (mentor_name and room_number) and stores the entry and exit dates of the rehabilitation program.

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Attrib ute Name	Contents	Туре	Format	Range	Requ ired	PK or FK	FK referenc ed Table
client _id (FK)	Client's ID	INTEGER (10)	999999 999	999999999- 100000000	Υ	FK	Client
room_n umber	Mentor's room number	INTEGER (4)	9999	9999-1000	Υ		
mentor _name	Mentor's name	VARCHA R (30)	Xxxxxxx xxxxxxx		Υ		
entry_ date	When the client joined the program	DATE	MM- DD-YYYY		Υ		
exit_d ate	When the client exited the program	DATE	MM- DD-YYYY		Υ		

ClassSessionAttendance (80 rows): Relates a resident to a class session, each resident is required to attend 16 sessions.

Attrib	Contents	Туре	Format	Range	Requ	PK or	FK Referenced
ute					ired	FK	Table
Name							
class_	Class'	INTEGER	XXX9999		Υ	FK	ClassSession
sessio	session		99				
n_id	ID						
(FK)							
client	Client's		9999999	99999	Υ	FK	Client
_id	ID		99	9999-			
(FK)				10000			
				00000			

 $\textbf{ClassSession} \ (15 \ rows): \ Holds \ all \ available \ session's \ information.$

Attribu	Contents	Type	Format	Range	Requi	PK or	FK
te Name					red	FK	Reference
							d Table
class_s	Class' session	Serial	XXX9999		Υ	PK	
ession_	ID						
id							
mentor_	Mentor	VARCH	Xxxxxxxxx		Υ		
name	teaching the	AR (30)	XXXXXXXXX				

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	current session.					
capacit y	Capacity of clients attending a class session	INT(2)	99	99- <mark>1</mark>	Υ	
room_id	Room's number	INT(4)	9999	9999-1000	Υ	
date_of _sessio n	Day of the week of the session	DATE	MM-DD- YYYY		Υ	
start_t ime	Session's starting time	TIME	нн:мм		Υ	
end_tim	Session's end time	TIME	HH:MM		Υ	

Comentado [GU1]: Should this range include 0?
- Elijah

ER Diagram:

