Project Code Name: Jellyfish

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Database Design Outline / Schema / ER

- providers
 - o Primary Key provider id int(11) NOT NULL AUTO INCREMENT
 - o fname varchar(255) NOT NULL
 - o lname varchar(255) NOT NULL
 - o credentials varchar(255) NOT NULL
 - This entity represents the therapy provider. They have a M:M relationship via appointments with clients.

clients

- o Primary Key client id int (11) NOT NULL AUTO INCREMENT
- o fname varchar(255) NOT NULL
- o lname varchar(255) NOT NULL
- o insurance num int(20) NOT NULL
- o This entity represents the children receiving the therapy. They have a 1:M relationship with their skills and problem_behaviors.
- They have a M:M relationship via appointments with providers.

appointments

- o Primary Key appointment_id int (11) NOT NULL AUTO_INCREMENT
- o date date NOT NULL
- o time time(0) NOT NULL
- o end time time(0) NOT NULL
- O These are the appointments that link the providers and clients via M:1 relationships with each; therefore, they use the provider id and client id foreign keys.
- Appointments also have a M:M relationship with skills and problem_behaviors since it is during the appointments that these things are addressed. This is implemented with join tables representing the occurrences of behaviors and skill trials during the session.

problem behaviors

- o Primary Key behavior id int (11) NOT NULL AUTO INCREMENT
- o name varchar(255) NOT NULL
- o definition varchar(255) NOT NULL
- Behaviors are typically tracked, if they decrease it is used as evidence of the efficacy of the skill goals. They have a M:M relationship to the appointments via the related data taken by the provider. These data are recorded in the behaviors table. They have a 1:m relationship with behaviors, the occurrences of the problem behavior.
- These problem_behaviors are linked to the client that exhibits them, the client_id is used to do this.

skills

- o Primary Key skill id int(11) NOT NULL AUTO INCREMENT
- o name varchar(255) NOT NULL
- o definition varchar(255) NOT NULL
- o pass_condition varchar(255) NOT NULL There is always a predefined condition that the goal will be considered passed such as '80% successful trials for 3 consecutive sessions'
- O Skill goals are assigned to each child and tracked each appointment to monitor progress. They have a M:M relationship to the appointments via the data kept in the skill_trials table. The skills have a 1:M relationship to the skill trials.
- These skills are linked to the client that is working on them, the client_id is used to do this as a foreign key.

behaviors

- o Primary Key behavior event id int(11) NOT NULL AUTO INCREMENT
- o time time(0) some behaviors are monitored by how long they last
- o end time time (0)
- o occurrences int some behaviors are monitored by how many times they occur in a given period of time such as
- o This represents the actual data entries performed by providers.
- o behaviors have a M:1 relationship with problem_behaviors and appointments and reference behavior id and appointment id as foreign keys.

skill trials

- o Primary Key skill trial id int(11) NOT NULL AUTO INCREMENT
- o prompt varchar(20) refusal, full_physical, partial_physical, model, direct_verbal, indirect_verbal, gesture, independent each trial is often marked for how much support was provided to complete a task successfully.
- passed bool pass fail data is sometimes taken in leu of monitoring support level
- o This represents the actual data entries performed by providers.
- o Skill_trials have a M:1 relationship with skills and appointments and reference skill_id and appointment_id as foreign keys.



