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BAD - Chen Notation Diagram

1. Introduction

The diagram enclosed in the zip folder is a chen notation ER diagram. The point of the diagram is to visualize how the database relationships and table relate to each other. The code for creating the database abbreviations have been used. These abbreviations are not present in the Chen notation ER diagram. But will be used in this text.

Abbreviation	Meaning
ProvId	Provider ID
BPA	Business Physical Address
GId	Guest ID
EId	Experience ID
SEId	Shared Experience ID
SE	Shared Experience
SEDets	Shared Experience Details
SEGuest	Shared Experience Guest

2. Entities and attributes

The main entities in my ER diagram are the Provider, Guest, Experience and Shared Experience. Each of them have different attributes which can be seen in the following.

Provider

Represents businesses offering experiences.

Attributes:

- Provider_Id Unique identifier for providers (Primary Key)
- Business Physical Address Physical address of the provider
- CVR Central Business Register Number
- Phone Number Contact number of the provider
- Name Name of the provider

Guest

Represents individuals attending shared experiences.

Attributes:

- Guest_Id Unique identifier for guests (Primary Key)
- Phone Number Contact number of the guest
- Name Name of the guest

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• Age – Age of the guest

Experience

Represents different activities offered by providers.

Attributes:

- Experience_Id Unique identifier for experiences (Primary Key)
- Name Name of the experience
- Price Cost of the experience
- Provider_Id Foreign key referencing Provider
- Description Details about the experience

Shared Experience

Represents events that consist of one or more experiences.

Attributes:

- Shared_Experience_Id Unique identifier for shared experiences (Primary Key)
- Name Name of the shared experience
- Date Date of the shared experience

Relationships

The attributes and entities above have been outlined. Now for the relationship between each of the entities. The relationships are as follows:

- Provider has a relationship of 1:M to experience, because an experience is provided by one provider, but one provider can Provide multiple experiences.
- Guest has a relationship of M:M to experiences AND SE, because a guest can Attend multiple experiences and SE. The experience and SE can also have many guests attending it.
- Experience has a relationship of M:M to SE because an experience can be a part of multiple SE. A SE Consists of many experiences.