Database Schema:

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Channel	channelId	bigint	Unique identifier for the channel	true	false	N/A	N/A
	channelName	string	Name of the channel	false	false	N/A	N/A
	channelType	string	Type of the channel	false	false	N/A	N/A
	profileId	bigint	Foreign key reference to Profile table	false	true	Profile	profileId
	serverId	bigint	Foreign key reference to Server table	false	true	Server	serverId
	channelCreatedTimestamp	datetime	Timestamp when the channel was created	false	false	N/A	N/A
	channelUpdatedTimestamp	datetime	Timestamp when the channel was updated	false	false	N/A	N/A
	conversationId	bigint	Unique identifier for the conversation	true	false	N/A	N/A

Description:

- Stores information about different communication channels in the system, such as their names, types, and creation/update timestamps.
- It maintains relationships with profiles and servers through foreign key references, indicating which profiles and servers are associated with each channel.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Conversation	memberOneId	bigint	Foreign key reference to Member table	false	true	Member	memberId
	memberTwoId	bigint	Foreign key reference to Member table	false	true	Member	memberId
	directMessageId	bigint	Unique identifier for the direct message	true	false	N/A	N/A
	messageContent	string	Content of the direct message	false	false	N/A	N/A
	sendingMemberId	bigint	Foreign key reference to Member table	false	true	Member	memberId

Description:

- Manages conversations between two members, storing details like member IDs involved in the conversation, direct message ID, and timestamps.
- It helps organize and track direct messages exchanged between members.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
DirectMessage	conversationId	bigint	Foreign key reference to Conversation table	false	true	Conversation	conversationId
	isDeleted	boolean	Flag indicating if the message is deleted	false	false	N/A	N/A
	directMessageCreatedTimestamp	datetime	Timestamp when the message was created	false	false	N/A	N/A
	directMessageUpdatedTimestamp	datetime	Timestamp when the message was updated	false	false	N/A	N/A
	memberId	bigint	Unique identifier for the member	true	false	N/A	N/A
	memberRole	string	Role of the member	false	false	N/A	N/A
	profileId	bigint	Foreign key reference to Profile table	false	true	Profile	profileId

Description:

- Handles direct messages exchanged between members.
- Stores information about the content of messages, whether they are deleted, and timestamps.
- Utilizes foreign key references to associate messages with specific conversations and members.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Member	serverId	bigint	Foreign key reference to Server table	false	true	Server	serverId
	memberCreatedTimestamp	datetime	Timestamp when the member was created	false	false	N/A	N/A
	memberUpdatedTimestamp	datetime	Timestamp when the member was updated	false	false	N/A	N/A
	messageId	bigint	Unique identifier for the message	true	false	N/A	N/A
	messageContent	string	Content of the message	false	false	N/A	N/A
	sendingMemberId	bigint	Foreign key reference to Member table	false	true	Member	memberId

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
	channelId	bigint	Foreign key reference to Channel table	false	true	Channel	channelId

Description:

- Represents members within the system, associated with profiles and servers.
- Maintains information such as member roles and creation/update timestamps.
- Helps manage permissions and access levels within the system.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Message	isDeleted	boolean	Flag indicating if the message is deleted	false	false	N/A	N/A
	messageCreatedTimestamp	datetime	Timestamp when the message was created	false	false	N/A	N/A
	messageUpdatedTimestamp	datetime	Timestamp when the message was updated	false	false	N/A	N/A
	fileUrl	string	URL of the file attached to the message	false	false	N/A	N/A
	profileId	bigint	Unique identifier for the profile	true	false	N/A	N/A
	userId	string	Unique user ID	false	false	N/A	N/A

Description:

- Manages messages sent within channels or conversations.
- Stores message content, timestamps, and file URLs.
- Utilizes foreign key references to associate messages with sending members and channels.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Profile	profileImageUrl	string	URL of the profile image	false	false	N/A	N/A
	profileEmail	string	Email of the profile	false	false	N/A	N/A
	profileCreatedTimestamp	datetime	Timestamp when the profile was created	false	false	N/A	N/A
	profileUpdatedTimestamp	datetime	Timestamp when the profile was updated	false	false	N/A	N/A
	serverId	bigint	Unique identifier for the server	true	false	N/A	N/A
	serverName	string	Name of the server	false	false	N/A	N/A
	serverImageUrl	string	URL of the server image	false	false	N/A	N/A

Description:

- Stores user profile information within the system.
- Contains details such as profile names, email addresses, profile image URLs, and creation/update timestamps.
- Helps identify and manage user accounts within the system.

TableName	ColumnName	DataType	ColumnDescription	PrimaryKey	ForeignKey	ReferencedTable	ReferencedColumn
Server	inviteCode	bigint	Invite code for the server	false	false	N/A	N/A
	ownerProfileId	bigint	Foreign key reference to Profile table	false	true	Profile	profileId
	serverCreatedTimestamp	datetime	Timestamp when the server was created	false	false	N/A	N/A
	serverUpdatedTimestamp	datetime	Timestamp when the server was updated	false	false	N/A	N/A

Description:

- Represents servers within the system, typically containing multiple channels and members.
- Stores information such as server names, image URLs, invite codes, and creation/update timestamps.
- Helps organize and manage communication within the system, providing a platform for channels and conversations.