**Tables and Attributes (Chat Application Schema)**

1. **Address:** addressId (PK), latitude, longitude, houseNo, stretNo, block, city, district, state, country, pincode, createdBy, updatedBy, createdAt, updatedAt
2. **Organisation:** orgId (PK), name, mobile, email, website, size, password, addressId (FK), logoPath, industry, createdBy, updatedBy, createdAt, updatedAt
3. **User**: userId (PK), password, name, mobile, email, profilePicPath, status, designation, orgID (FK), lastLogin, addressId, createdBy, updatedBy, createdAt, updatedAt
4. **Chat:** chatId (PK), members, admin, chatName, ChatDescription, isGroupChat, createdBy, updatedBy, createdAt, updatedAt
5. **ChatList:** listId (PK), userID (FK), chatID (FK)
6. **ChatParticipant:** participantId (PK), chatID (FK), userID (FK), status, addedBy, addedAt
7. **Message:** messageId (PK), chatId (FK), userId (FK), status, forwardedChat, createdBy, updatedBy, createdAt, updatedAt
8. **Text:** textId (PK), messageId (FK - Unique), chatId (FK), text
9. **File:** fileId (PK), messageId (FK - Unique), chatId (FK), fileName, filePath, fileSize, fileType
10. **Location:** locationId (PK), messageId (FK - Unique), chatId (FK), addressID (FK)
11. **Meeting:** meetingId (PK), messageId (FK - Unique), chatId (FK), title, purpose, description, date, time, duration, location, addressId (FK), videoCallLink
12. **Payment:** paymentId (PK), messageId (FK - Unique), chatId (FK), payFrom, payTo, amount, dueDate, payStatus, refNo, bankName, paymentMethod, currency
13. **CallUp:** callId (PK), messageId (FK - Unique), chatId (FK), callType, duration, callStatus, callQuality, participants
14. **Media:** mediaId (PK), messageId (FK - Unique), chatId (FK), mediaName, mediaPath, mediaSize, mediaType, duration, bitrate
15. **Verification:** otpId (PK), type, otp, verificationId, purpose, createdAt, expireAt

**Tables and Relationships**

1. **User** --- One-to-Many --- **ChatParticipant**
2. **User** --- One-to-Many --- **ChatList**
3. **Chat** --- One-to-Many --- **ChatParticipant**
4. **Chat** --- One-to-Many --- **ChatList**
5. **Chat** --- One-to-Many --- **Text**
6. **Chat** --- One-to-Many --- **File**
7. **Chat** --- One-to-Many --- **Address**
8. **Chat** --- One-to-Many --- **Meeting**
9. **Chat** --- One-to-Many --- **Payment**
10. **Chat** --- One-to-Many --- **CallUp**
11. **ChatParticipant** --- Many-to-One --- **User**
12. **ChatParticipant** --- Many-to-One --- **Chat**
13. **ChatList** --- Many-to-One --- **User**
14. **ChatList** --- Many-to-One --- **Chat**
15. **Text** --- Many-to-One --- **Chat**
16. **File** --- Many-to-One --- **Chat**
17. **Address** --- Many-to-One --- **Chat**
18. **Meeting** --- Many-to-One --- **Chat**
19. **Payment** --- Many-to-One --- **Chat**
20. **CallUp** --- Many-to-One --- **Chat**

**Linkages Between Tables with Primary and Foreign Keys**

1. **User** (userID - Primary) --------> **ChatParticipant** (userID - Foreign)
2. **User** (userID - Primary) --------> **ChatList** (userID - Foreign)
3. **Chat** (chatID - Primary) --------> **ChatParticipant** (chatID - Foreign)
4. **Chat** (chatID - Primary) --------> **ChatList** (chatID - Foreign)
5. **Chat** (chatID - Primary) --------> **Text** (chatID - Foreign)
6. **Chat** (chatID - Primary) --------> **File** (chatID - Foreign)
7. **Chat** (chatID - Primary) --------> **Address** (chatID - Foreign)
8. **Chat** (chatID - Primary) --------> **Meeting** (chatID - Foreign)
9. **Chat** (chatID - Primary) --------> **Payment** (chatID - Foreign)
10. **Chat** (chatID - Primary) --------> **CallUp** (chatID - Foreign)
11. **ChatParticipant** (userID - Foreign) --------> **User** (userID - Primary)
12. **ChatParticipant** (chatID - Foreign) --------> **Chat** (chatID - Primary)
13. **ChatList** (userID - Foreign) --------> **User** (userID - Primary)
14. **ChatList** (chatID - Foreign) --------> **Chat** (chatID - Primary)
15. **Text** (chatID - Foreign) --------> **Chat** (chatID - Primary)
16. **File** (chatID - Foreign) --------> **Chat** (chatID - Primary)
17. **Address** (chatID - Foreign) --------> **Chat** (chatID - Primary)
18. **Meeting** (chatID - Foreign) --------> **Chat** (chatID - Primary)
19. **Payment** (chatID - Foreign) --------> **Chat** (chatID - Primary)
20. **CallUp** (chatID - Foreign) --------> **Chat** (chatID - Primary)