**Chatting App - Database Design Document**

**Table Level Design**

1. **user\_info**

| **Table Name - user\_info** | | |
| --- | --- | --- |
| **Column Name** | **Data Type** |  |
| user\_id | int | PrimaryKey |
| user\_first\_name | varchar |  |
| user\_last\_name | varchar |  |
| country\_code | varchar |  |
| mobile\_number | varchar |  |
| created\_time | datetime |  |
| CONSTRAINT user\_info UNIQUE(country\_code, mobile\_number) | | |

1. **user\_session**

| **Table Name - user\_session** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| token | varchar | PK |  |
| user\_id | int | FK | references user\_info(user\_id) |
| token\_generated\_time | datetime |  |  |
| token\_expired\_time | datetime |  |  |
| CONSTRAINT user\_token UNIQUE (user\_id,token) | | | |

1. **user\_login**

| **Table Name - user\_login** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| user\_id | int | FK | references user\_info(user\_id) |
| OTP | varchar(5) |  |  |
| generated\_time | datetime |  |  |
| expired\_time | datetime |  |  |
| CONSTRAINT user\_login UNIQUE(user\_id,OTP) | | | |

1. user\_profile\_photo

| **Table Name - user\_profile\_photo** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| user\_id | int | FK | references user\_info(user\_id) |
| profile\_photo | blob |  |  |

1. contact

| **Table Name - contact** | | |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| contact\_id | int | PK |  |
| created\_user\_id | int | FK | references user\_info(user\_id) |
| contact\_first\_name | varchar |  |  |
| contact\_last\_name | varchar |  |  |
| contact\_user\_id | int | FK | references user\_info(user\_id) |
| created\_time | datetime |  |  |
| blocked | char |  |  |
| CONSTRAINT contact\_info UNIQUE(CreatedUserId,ContactUserId) | | | |

1. chat

| **Table Name - chat** | | |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| chat\_id | int | PK |  |
| primary\_user\_id | int | FK | references user\_info(user\_id) |
| secondary\_user\_id | int | FK | references user\_info(user\_id) |
| last\_message\_sent\_time | datetime |  |  |
| last\_message\_content | varchar |  |  |
| last\_message\_by | int | FK | references user\_info(user\_id) |
| group\_id | int | FK | references chat\_group(group\_id) |

1. Message History

| **Table Name - message\_history** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| message\_id | int | PK |  |
| chat\_id | id | FK | references chat (chat\_id) |
| sender\_user\_id | int | FK | references user\_info(user\_id) |
| receiver\_user\_id | int | FK | references user\_info(user\_id) |
| message\_type(Text/Media/Combined) | varchar |  |  |
| text\_message\_content | varchar |  |  |
| message\_sent\_time | datetime |  |  |
| message\_delivered\_time | datetime |  |  |
| message\_read\_time | datetime |  |  |
| message\_status | varchar |  |  |
| message\_deleted | varchar |  |  |

1. Message Media Info

| **TableName - media\_message\_info** | | |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| media\_message\_id | int | PK |  |
| media\_content | blob |  |  |
| message\_id | int | FK | references message\_history(message\_id) |

1. chat\_group

| **Table Name - chat\_group** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| group\_id | int | PK |  |
| group\_name | varchar |  |  |
| created\_time | datetime |  |  |

1. group\_pariticipants

| **Table Name - chat\_group\_participants** | | | |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** |  |  |
| participant\_id | int | PK |  |
| group\_id | int | FK | references chat\_group(group\_id) |
| contact\_id | int | FK | references contact(contact\_id) |