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)		

2) **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)			

3) **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)			

4) user_profile_photo

Table Name - user_profile_photo			
Column Name	**Data Type**		
user_id	int	FK	references user_info(user_id)
profile_photo	blob		

5) 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)			

6) 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)

7) 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		

8) 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)

9) chat_group

Table Name - chat_group			
Column Name	**Data Type**		
group_id	int	PK	
group_name	varchar		
created_time	datetime		

10)   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)