

Conversation	
PK	<u>conv_id</u>

Group	
PK(FK)	<u>conv_id</u>
boolean	is_history_hidden

Channel	
PK(FK)	<u>conv_id</u>
boolean	sign_message
FK, unique	conv_id(discussion)

Private_Chat	
PK(FK)	<u>conv_id</u>
boolean	is_secret_chat
FK	media_id(wallpaper)

Public_Conversation	
PK (FK)	<u>conv_id</u>
FK, not null	owner_user_id (user)
varchar2(10), not null	title
varchar2(10)	description
date	data_created
varchar2(30), def : All 1	allowed_reactions
bool def : 0	is_public

Shared_Media	
PK	<u>conv_id , media_id</u>
FK	conv_id
FK	media_id

User_Conversations	
PK	<u>conv_id , user_id</u>
FK	conv_id
FK	user_id
varchar2(9)	exception_notification

Has_PV	
PK	<u>conv_id , user_id</u>
FK	conv_id
FK	user_id

Member_Of	
PK	<u>conv_id , user_id</u>
FK	user_id
FK	conv_id
varchar2(10)	nickname
date	membership_date
varchar2(24), def : 13 1	group_permission

Booster	
PK	<u>conv_id , user_id</u>
FK	user_id
FK	conv_id
int. not null	amount

Ban	
PK (FK)	<u>conv_id,user_id</u>
FK	user_id (user)
FK	conv_id (public conversation)

Subscribed_To	
PK (FK)	<u>conv_id,user_id</u>
FK	user_id
FK	conv_id
date	sub_date

Advertisement	
PK	<u>conv_id , adver_conv_id</u>
FK	conv_id
FK	adver_conv_id

Admin	
PK	<u>conv_id , user_id</u>
FK	user_id
FK	conv_id
varchar2(10), def : All 1	channel_permission

Invite_Link	
PK (FK)	<u>conv_id,user_id</u>
FK, unique, not null	conv_id(public_conv)
FK, unique, not null	user_id
varchar2(10),	name
date	expire_time
unique, not null	url_link
int	user_limit
int	user_joined

User	
PK	<u>user_id</u>
unique	username
text, def : " "	bio
FK	public_prof_id (media)

Contact	
PK	<u>user_id, c_user_id</u>
FK	user_id(human_user)
FK	c_user_id(human_user)
varchar2(10), not null	first_name
varchar2(10)	last_name

Chosen_Privacy	
PK	<u>user_id, ex_user_id</u>
FK	user_id(human_user)
FK	ex_user_id(Exception_user)
varchar2(9), not null	exception_privacy

Send_Sticker	
PK (FK)	<u>user_id, sticker_id</u>
FK	user_id (user)
FK	sticker_id (sticker)
number	counter

Has_Sticker_Pack	
PK (FK)	<u>user_id, sticker_pack_id</u>
FK	user_id (user)
FK	sticker_pack_id (sticker pack)

Human_User	
PK (FK)	<u>user_id</u>
varchar2(10) unique, not null	phone_number
varchar2(10), not null	first_name
varchar2(10)	last_name
date	dob
timestamp	last_seen_time
varchar2(3), def : 111	notification_preference
varchar2(9)	privacy_preference
varchar2(20), def: null	2step_pass

Premium	
PK (FK)	<u>user_id</u>
date	expiration_date

Private_Prof	
PK (FK)	<u>media_id</u>
FK, not null	user_id
timestamp, not null	time_set

Block_User	
PK (FK)	<u>blocker_user_id, blocked_user_id</u>
FK	blocker_user_id (human_user)
FK	blocked_user_id (user)

Bot	
PK (FK)	<u>user_id</u>
number	users_counter

Bot_Commands	
PK	<u>user_id, cmd_text</u>
FK	user_id
varchar2(10)	cmd_text

Story	
PK	<u>user_id, media_id</u>
FK	user_id
FK	media_id

Session	
PK (FK)	<u>Session_id</u>
FK, not null	auth_user_id (user)
varchar2(2), not null	auth_status
varchar2(10), not null	ip
varchar2(10)	location
date , not null	create_time
date , not null	last_activity
varchar2(10)	device
varchar2(10)	app_os
2 bit , def : 11	access_secret_call

Message	
PK	<u>message_id</u>
timestamp	send time
varchar2(10)	message_type
FK, not null	sender_user_id
FK, not null	conv_id (contains)
FK	forward_from (message)
FK	reply_to (message)

Normal_Message	
PK (FK)	<u>message_id</u>
date	edit_time
varchar2(10)	text

Message_Sticker	
PK (FK)	<u>message_id</u>
FK, not null	sticker_id (sticker)

Vote	
PK (FK)	<u>user_id, poll_option_id</u>
FK	user_id (user)
FK	poll_option_id

Payment	
PK	<u>payment_id</u>
number	amount
varchar2(10)	currency
date	payment_date
FK, not null	card_id (card)
FK, not null	user_id (user)

Sticker_Pack	
PK	<u>sticker_pack_id</u>
varchar2(10)	name
unique not null	url
FK, not null	user_id

Poll_Message	
PK (FK)	<u>message_id</u>
varchar2(10) , not null	question
3 bit , not null 100	poll_type
FK	poll_option_id (correct_answer)

Poll_Option	
PK (FK)	<u>message_id,opt_id</u>
FK	message_id (message)
varchar2(10)	option_text
int	opt_id
int def: 0	vote_counter

Card	
PK	<u>card_id</u>
date	expiration_date
varchar2(16)	card number

Call	
PK	<u>call_log_id</u>
varchar2(2)	status
interval	duration
timestamp	initiate_date
FK, not null	caller_user_id (user)
FK, not null	calee_user_id (user)

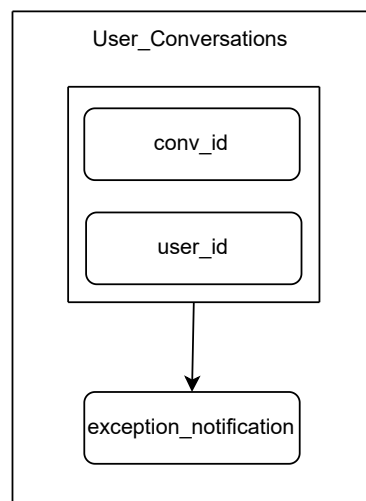
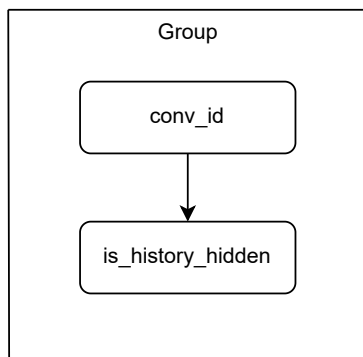
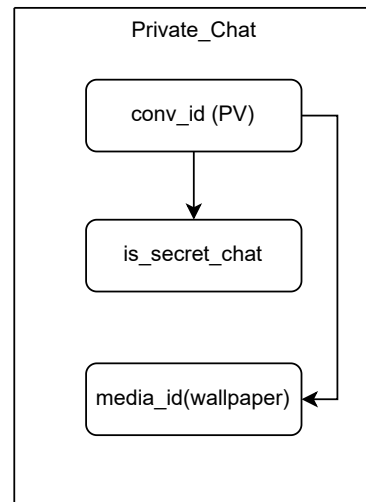
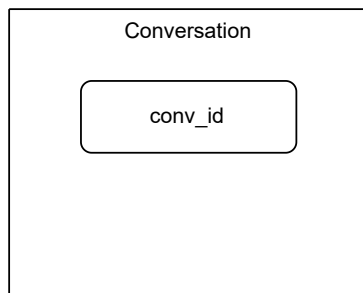
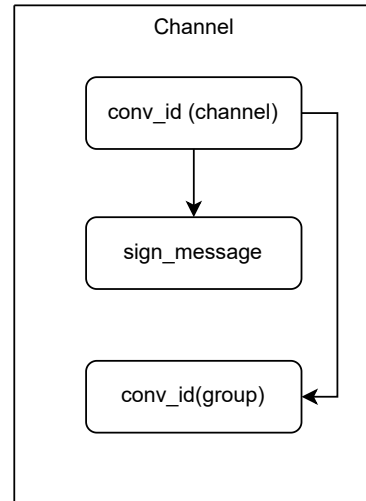
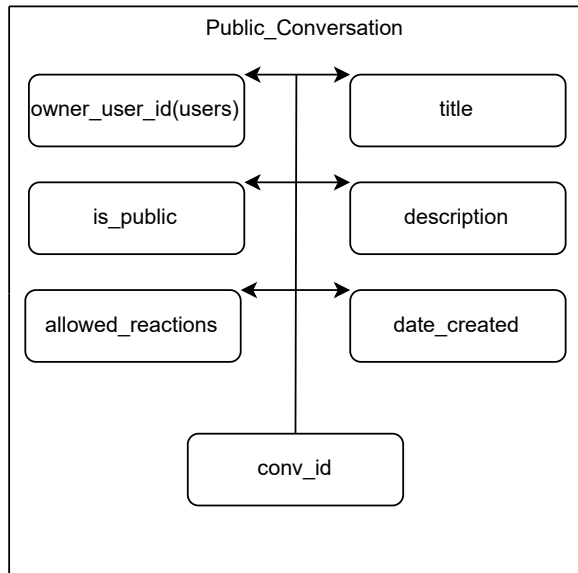
Sticker	
PK	<u>sticker_id</u>
varchar2(10)	emoji
FK not null	media_id
FK	sticker_pack_id

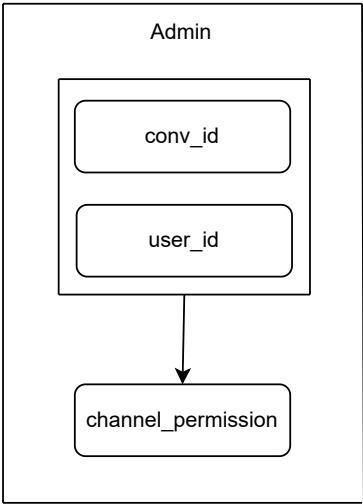
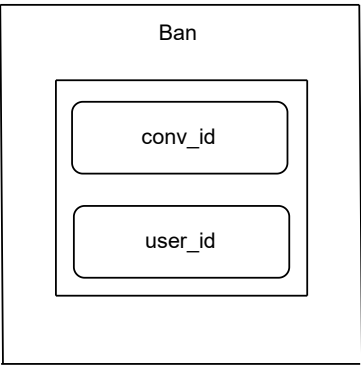
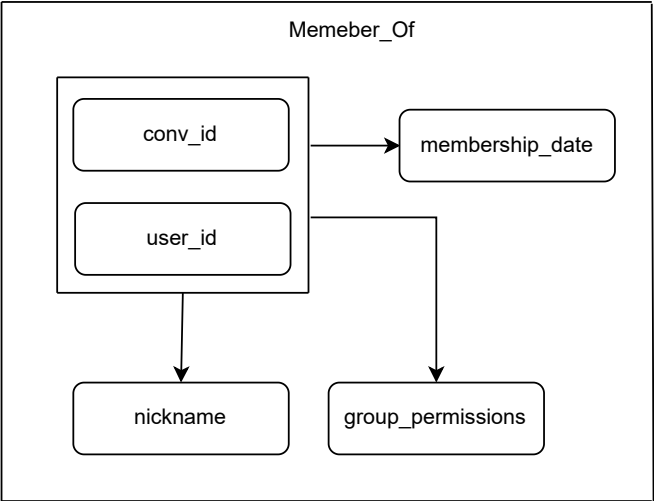
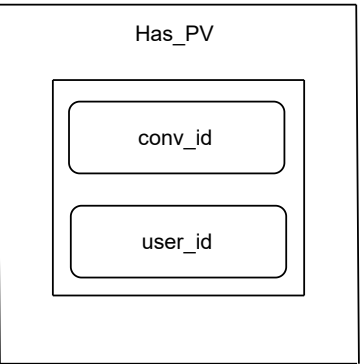
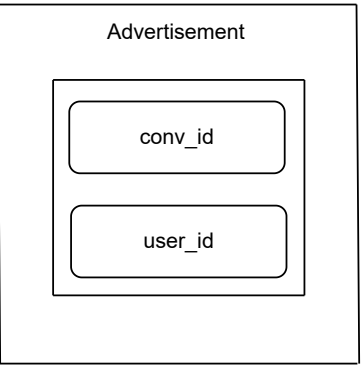
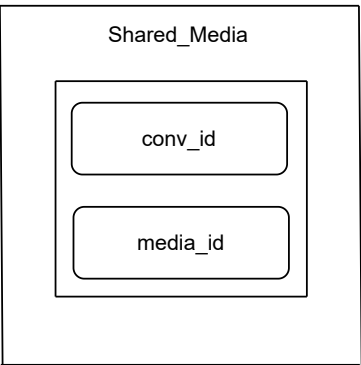
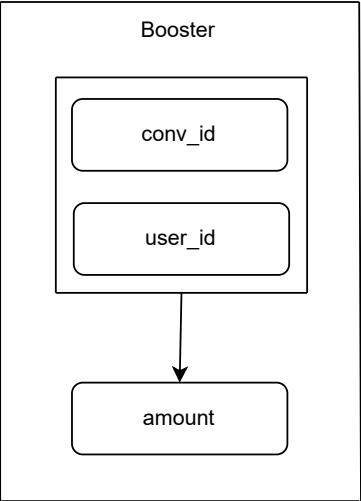
Reacts	
PK (FK)	<u>user_id, message_id</u>
FK	user_id (user)
FK, not null	message_id (message)
varchar2(10)	emoji
timestamp	time

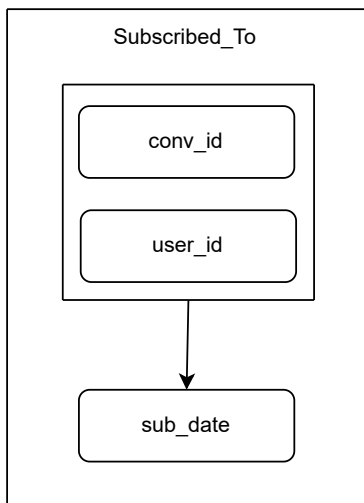


Media	
PK (FK)	<u>media_id</u>
unique, not null	path
varchar2(10)	media_type
int	file_size
FK, not null	uploader_id(user)
FK	attach_message_id (message)

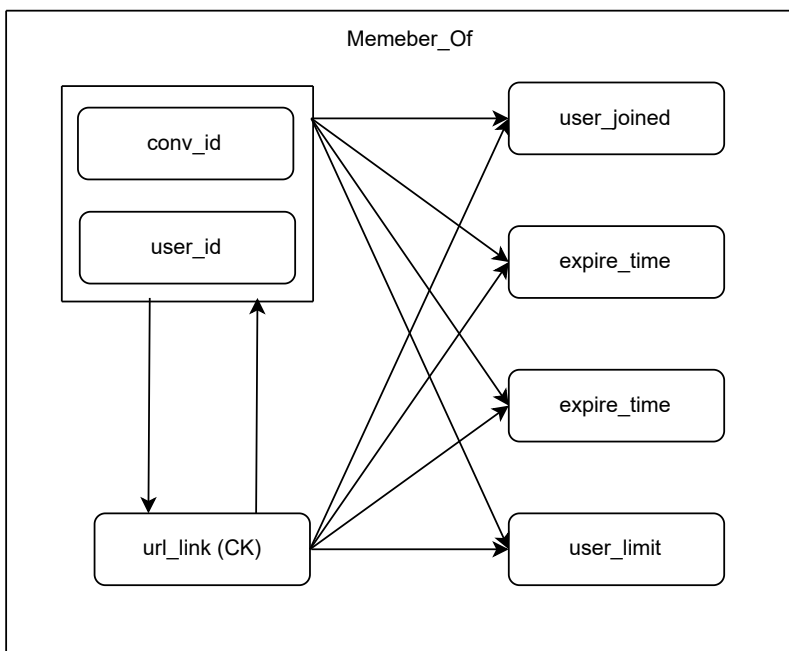
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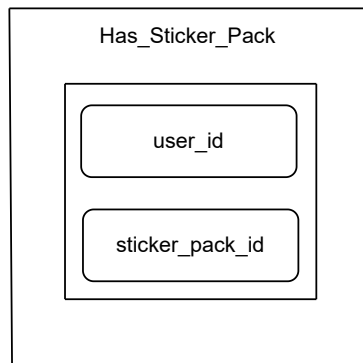
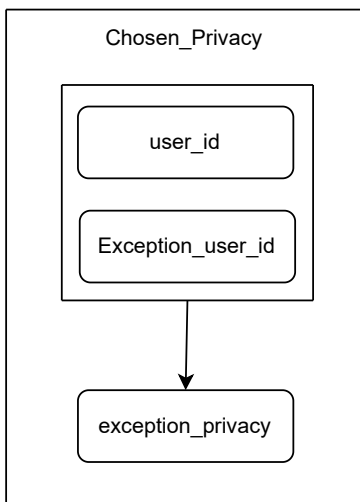
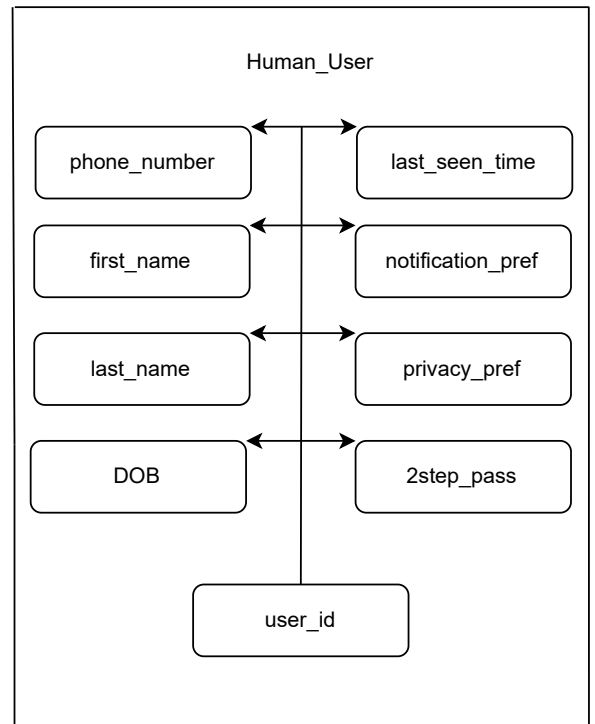
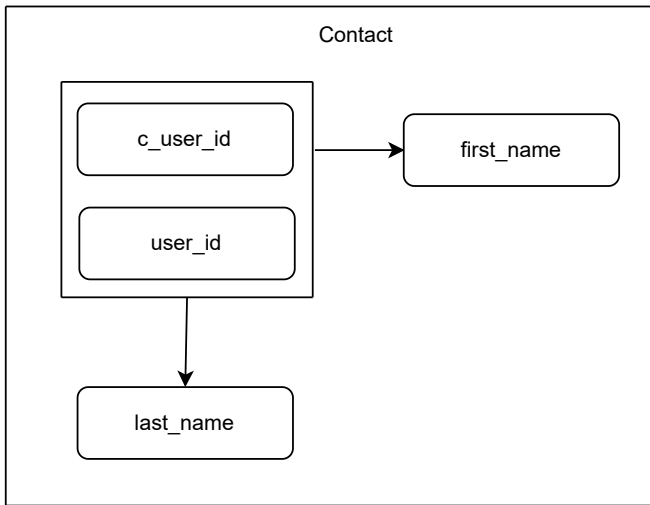
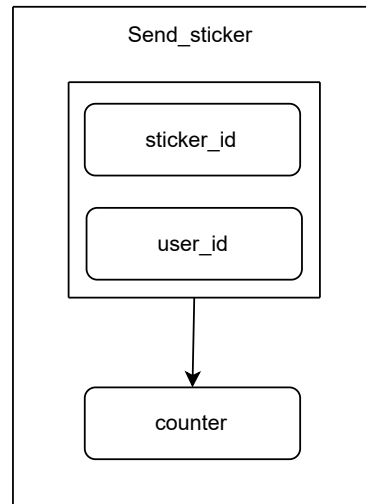
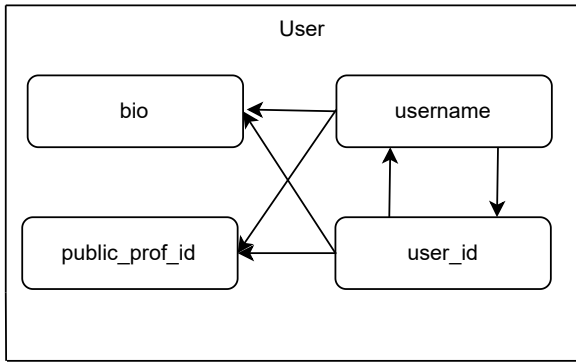


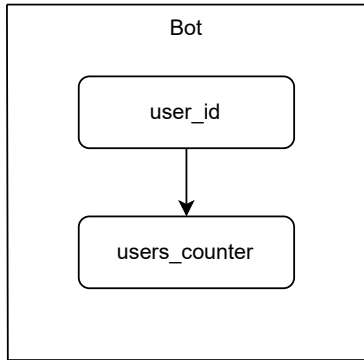
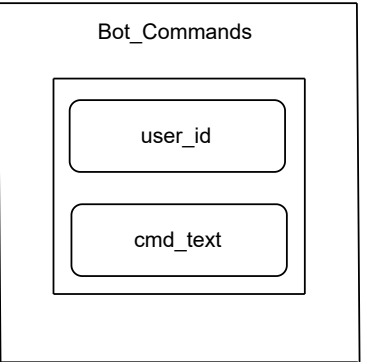
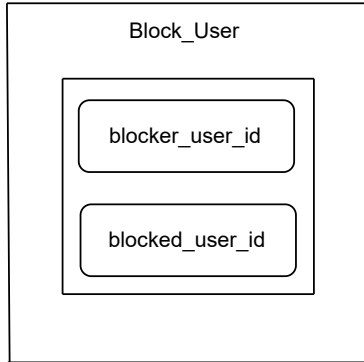
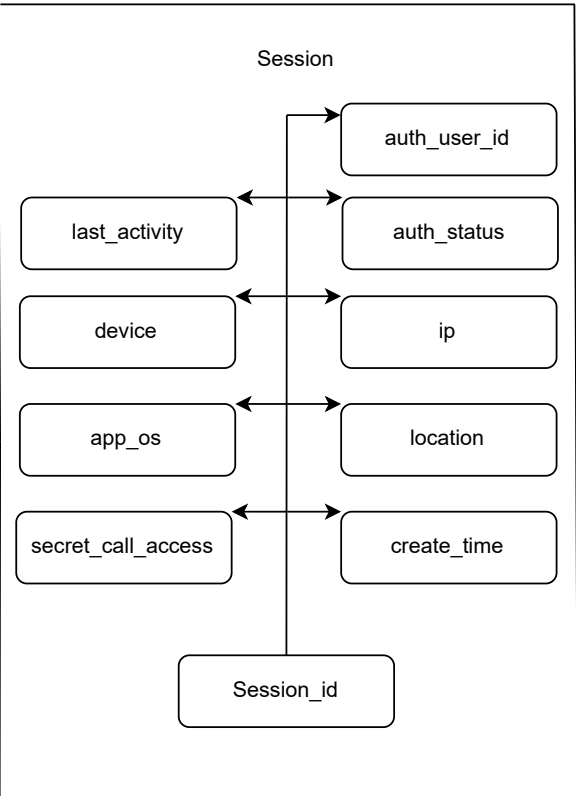
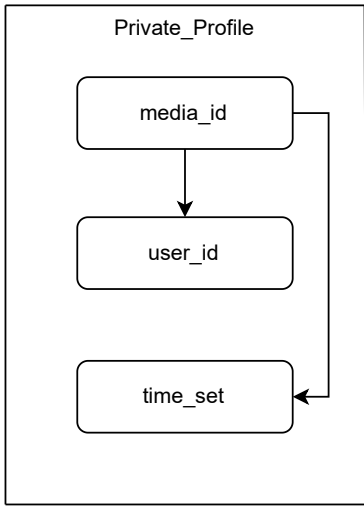
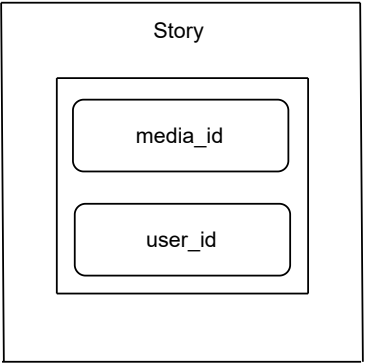
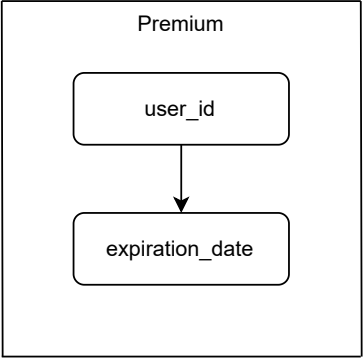


در حالت
 3NF
 ،داریم که هیچ واسطه مهمی نداشته باشیم
 مشخصا ارتباط یونیک بودن لینک یک وابستگی تابعی نامهم است و شرایط
 3NF
 بودن را تغییر نمیدهد



Page2 FD Dependencies





Page3 FD Dependencies

