Database model documentation

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1. Model details

Model name:

Database model for a messaging system

Version:

2.3

Database engine:

Oracle Database

Description:

2. Tables

2.1. Table user

Description:

> table for user details

2.1.1. Columns

Column name	Type	Properties	Description
id	number(10,0)	PK	
first_name	varchar2(50)		
last_name	varchar2(50)		
create_date	date		
is_active	char(1)		

2.2. Table group

Description:

> table group details

2.2.1. Columns

Column name	Type	Properties	Description
id	number(10,0)	PK	
name	varchar2(50)		
create_date	date		

2.3. Table user_group

Description:

> details for user-group

2.3.1. Columns

Column name	Type	Properties	Description
id	number(10,0)	PK	
user_id	number(10,0)		
group_id	number(10,0)		
create_date	date		

2.4. Table message

Description:

details for message

2.4.1. Columns

Column name	Type	Properties	Description
id	number(10,0)	PK	
subject	varchar2(100)		
creator_id	number(10,0)		
message_body	clob		
create_date	date		
parent_message_id	number(10,0)	null	
expiry_date	date		
is_reminder	number(1,0)		
next_remind_date	date	null	
reminder_frequency_id	number(10,0)	null	

2.5. Table message_recipient

2.5.1. Columns

Column name	Type	Properties	Description
id	number(10,0)	PK	
recipient_id	number(10,0)	null	
recipient_group_id	number(10,0)	null	
message_id	number(10,0)		
is_read	number(1,0)		

2.6. Table reminder_frequency

Description:

details for reminder frequency

2.6.1. Columns

Column name	Type	Properties	Description

id	number(10,0)	PK	
title	varchar2(25)		
frequency	number(1,0)		
is_active	char(1)		

3. References

3.1. Reference user_group_user

user	0..*	user_group
id	<->	user_id

3.2. Reference user_group_group

group	0..*	user_group
id	<->	group_id

3.3. Reference message_user

user	0..*	message
id	<->	creator_id

3.4. Reference message_message

message	0..*	message
id	<->	parent_message_id

3.5. Reference message_recipient_user

user	0..*	message_recipient
id	<->	recipient_id

3.6. Reference message_recipient_message

message	0..*	message_recipient
id	<->	message_id

3.7. Reference message_reminder_frequency

reminder_frequency	0..*	message
id	<->	reminder_frequency_id

3.8. Reference message_recipient_user_group

user_group	0..*	message_recipient
id	<->	recipient_group_id

4. Areas

4.1. User group subject area

4.1.1. Tables

- user
- group
- user_group

4.1.2. References

- user_group_user
- user_group_group
- message_user
- message_message
- message_recipient_user
- message_recipient_message
- message_reminder_frequency
- message_recipient_user_group

4.2. Message Sender Receiver subject area

4.2.1. Tables

- message
- message_recipient

4.2.2. References

- user_group_user
- user_group_group
- message_user
- message_message
- message_recipient_user
- message_recipient_message
- message_reminder_frequency
- message_recipient_user_group