Student Task Calendar System

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Table of contents

01.
Purpose
Purpose of the project

02.
Process Flow
Flow of the project

03.
Conceptual Model
Entity Relationship Diagram

04.
Internal Model
Database Design

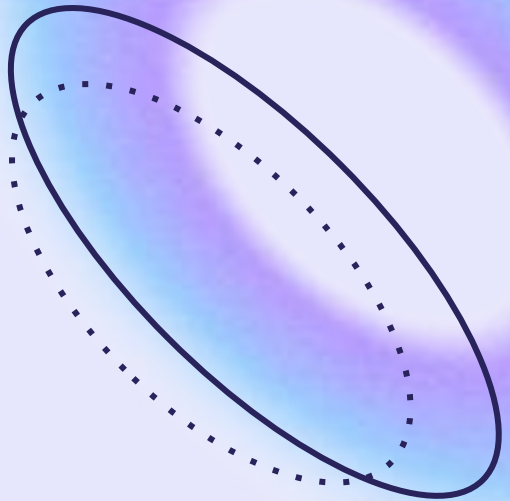
05.
Database Diagram
Structure of the system

06.
Data Dictionary
Information of the Data Elements

01.

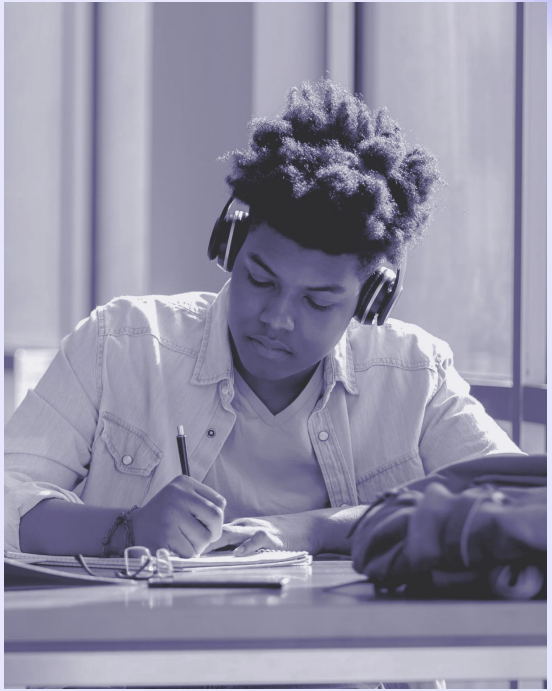
Purpose

Purpose of the Chosen Project



Purpose

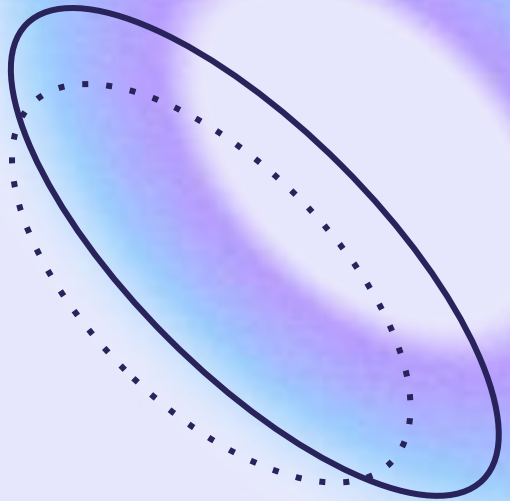
The purpose of the student task calendar system is to help students manage their academic workload and keep track of important deadlines, assignments, and events. It provides a centralized location for storing and organizing tasks, which helps students stay organized and avoid procrastination. Overall, its purpose is to help students be more productive and better in managing their time



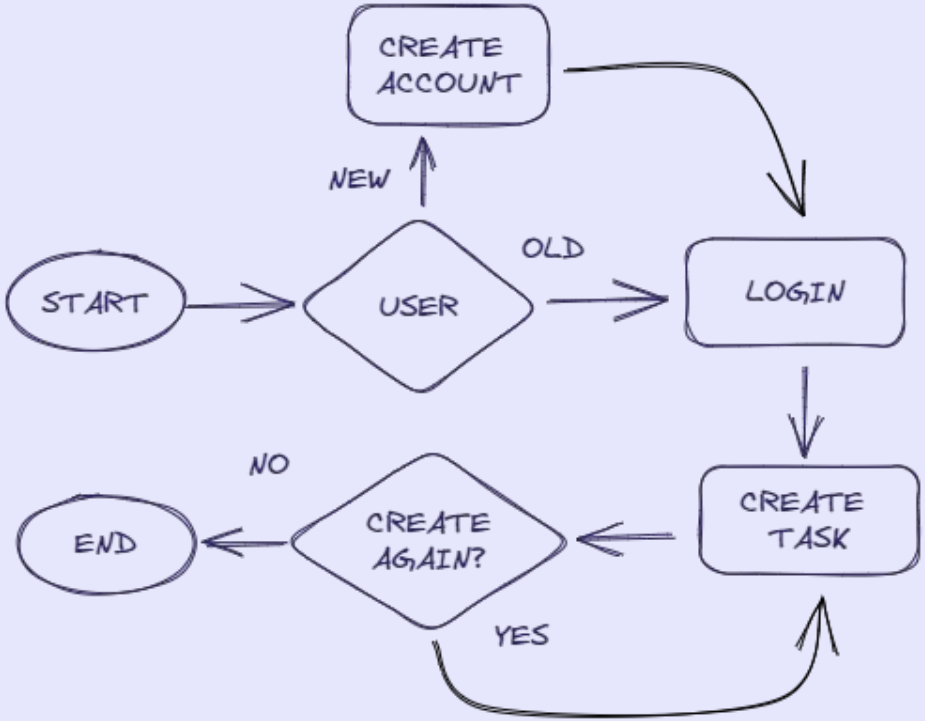
02.

Process Flow

The flow of the system



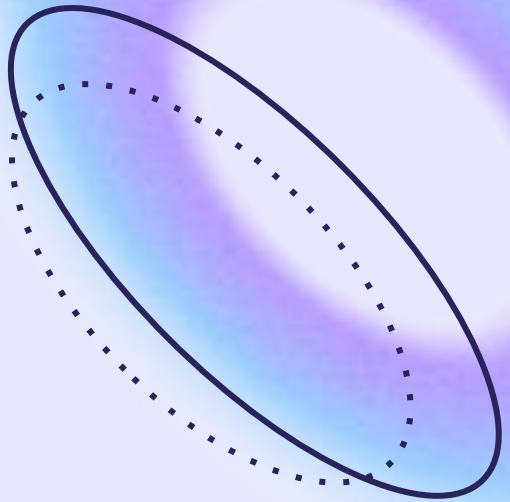
Process Flow

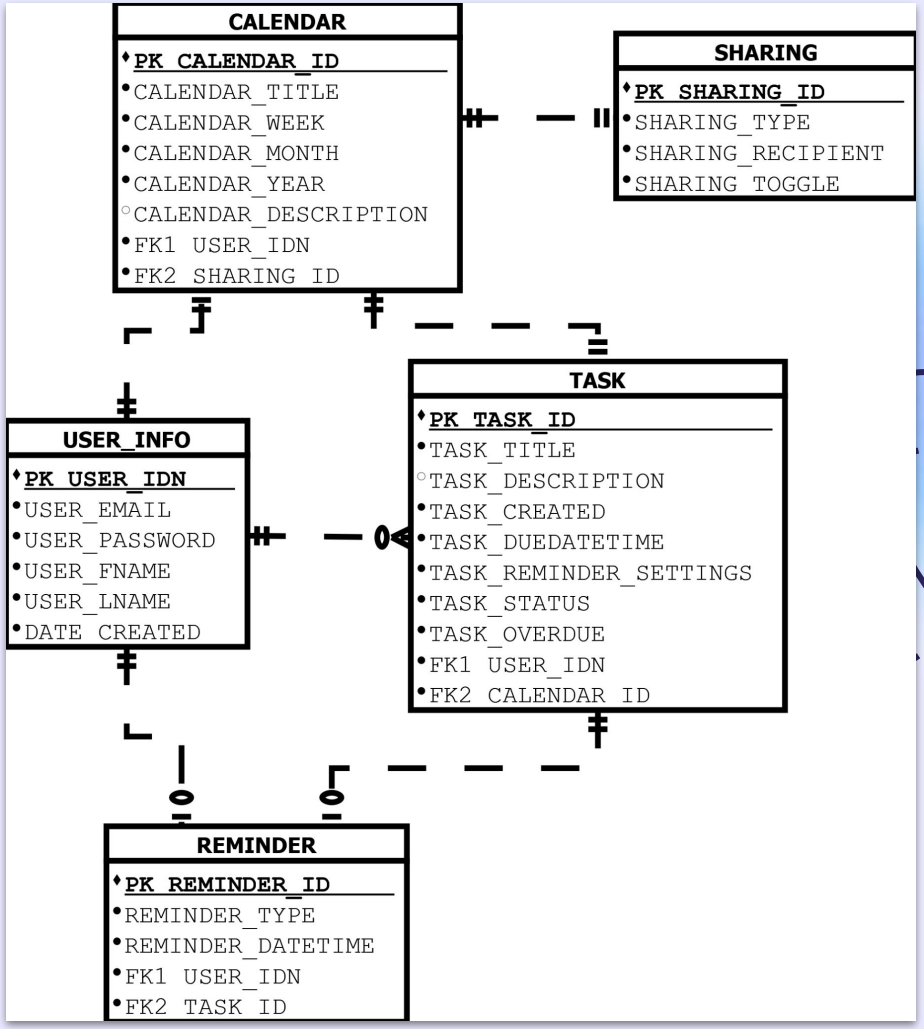


03.

Conceptual Model

Diagram

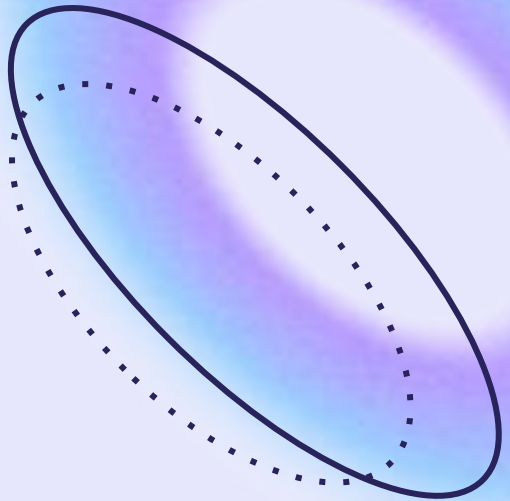



CALENDAR
PK_CALENDAR_ID
CALENDAR_TITLE
CALENDAR_WEEK
CALENDAR_MONTH
CALENDAR_YEAR
CALENDAR_DESCRIPTION
FK1 USER_IDN
FK2 SHARING ID
SHARING
PK_SHARING_ID
SHARING_TYPE
SHARING_RECIPIENT
SHARING TOGGLE
USER_INFO
PK_USER_IDN
USER_EMAIL
USER_PASSWORD
USER_FNAME
USER_LNAME
DATE CREATED
TASK
PK_TASK_ID
TASK_TITLE
TASK_DESCRIPTION
TASK_CREATED
TASK_DUEDATETIME
TASK_REMINDER_SETTINGS
TASK_STATUS
TASK_OVERDUE
FK1 USER_IDN
FK2 CALENDAR_ID
REMINDER
PK_REMINDER_ID
REMINDER_TYPE
REMINDER_DATETIME
FK1 USER_IDN
FK2 TASK_ID

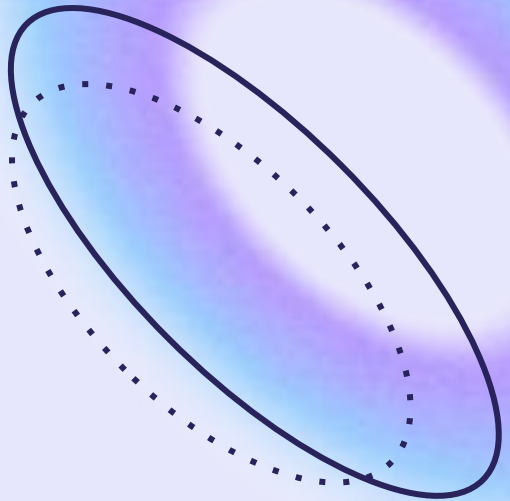
04.

Internal Model

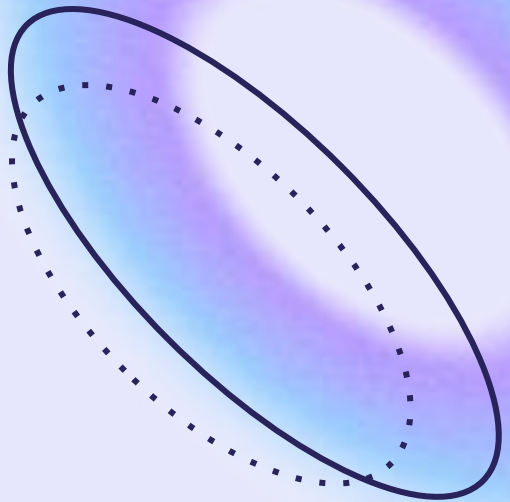
Database Design



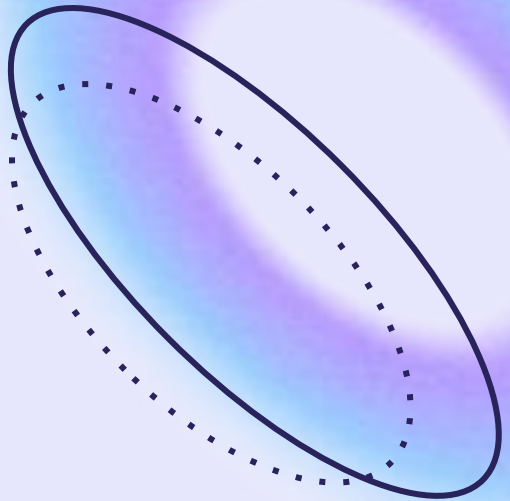
```
CREATE TABLE USER_INFO
(
	USER_IDN INT PRIMARY KEY IDENTITY NOT NULL,
	USER_EMAIL VARCHAR(25) NOT NULL,
	USER_PASSWORD VARCHAR(20) NOT NULL,
	USER_FNAME VARCHAR(25) NOT NULL,
	USER_LNAME VARCHAR(15) NOT NULL,
	DATE_CREATED DATETIME DEFAULT GETDATE()
)

CREATE TABLE SHARING
(
	SHARING_ID INT PRIMARY KEY IDENTITY NOT NULL,
	SHARING_TYPE VARCHAR(10) NOT NULL,
	SHARING_RECIPIENT VARCHAR(25) NOT NULL,
	SHARING_TOGGLE BIT DEFAULT 0
)
```



```
CREATE TABLE CALENDAR
(
        CALENDAR_ID INT PRIMARY KEY IDENTITY NOT NULL,
        CALENDAR_TITLE VARCHAR(20) NOT NULL,
        CALENDAR_WEEK CHAR(3) NOT NULL,
        CALENDAR_MONTH CHAR(3) NOT NULL,
        CALENDAR_YEAR INT NOT NULL,
        CALENDAR_DESCRIPTION VARCHAR(MAX) NULL,
        USER_IDN INT REFERENCES USER_INFO NOT NULL,
        SHARING_ID INT REFERENCES SHARING NOT NULL
)
```



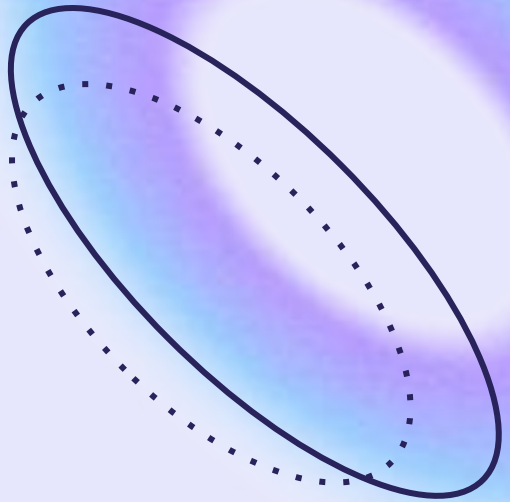
```
CREATE TABLE TASK
(
        TASK_ID INT PRIMARY KEY IDENTITY NOT NULL,
        TASK_TITLE VARCHAR(20) NOT NULL,
        TASK_DESCRIPTION VARCHAR(MAX) NULL,
        TASK_CREATED DATETIME DEFAULT GETDATE(),
        TASK_DUEDATETIME DATETIME NOT NULL,
        TASK_REMINDER_SETTINGS BIT DEFAULT 1,
        TASK_STATUS VARCHAR(5) NOT NULL,
        TASK_OVERDUE CHAR(1) DEFAULT 'O',
        USER_IDN INT REFERENCES USER_INFO NOT NULL,
        CALENDAR_ID INT REFERENCES CALENDAR NOT NULL
)
CREATE TABLE REMINDER
(
        REMINDER_ID INT PRIMARY KEY IDENTITY NOT NULL,
        REMINDER_TYPE VARCHAR(20) NOT NULL,
        REMINDER_DATETIME DATETIME NOT NULL,
        USER_IDN INT REFERENCES USER_INFO NOT NULL,
        TASK_ID INT REFERENCES TASK NOT NULL
)
```

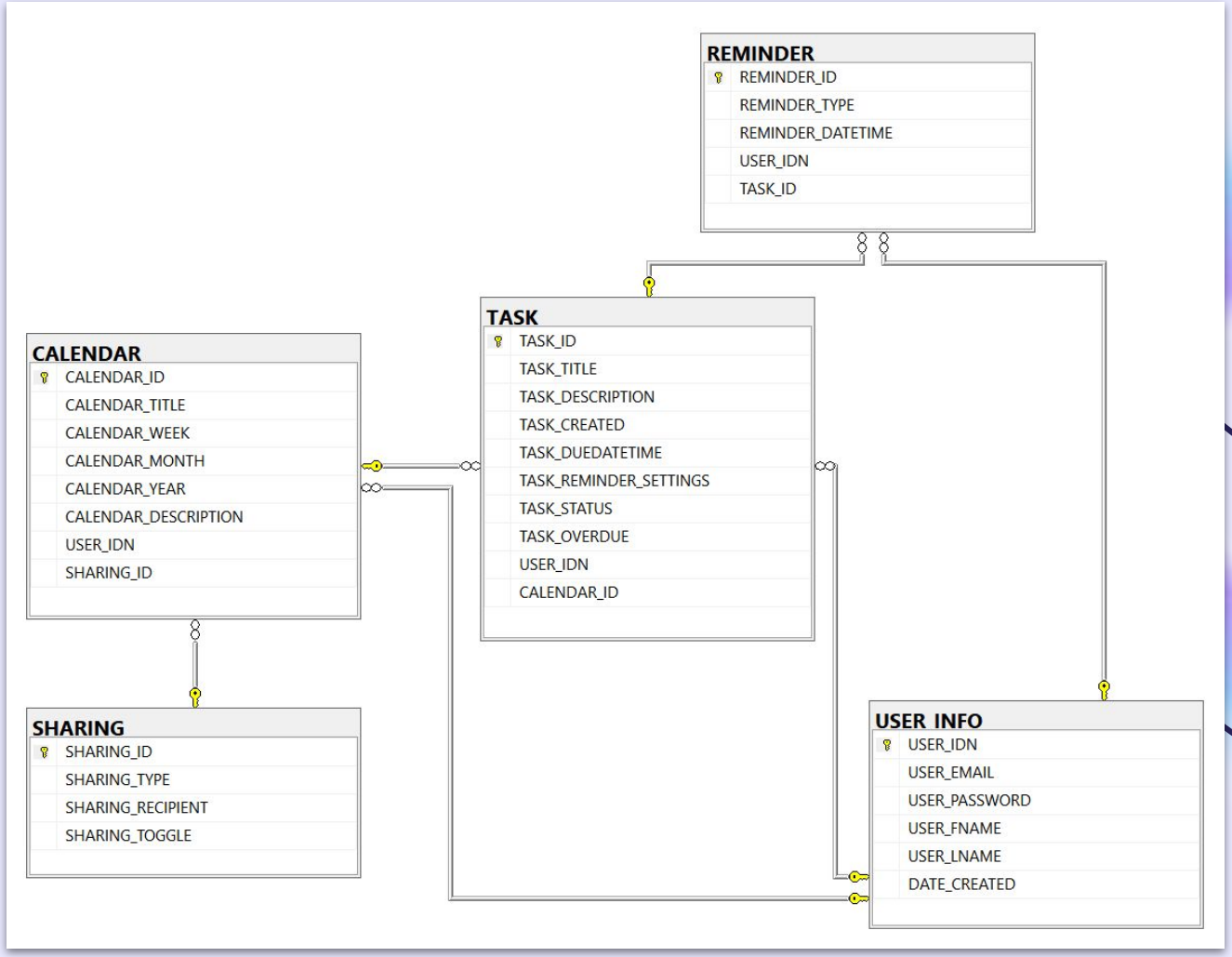


05.

Database Diagram

Structure of the Database

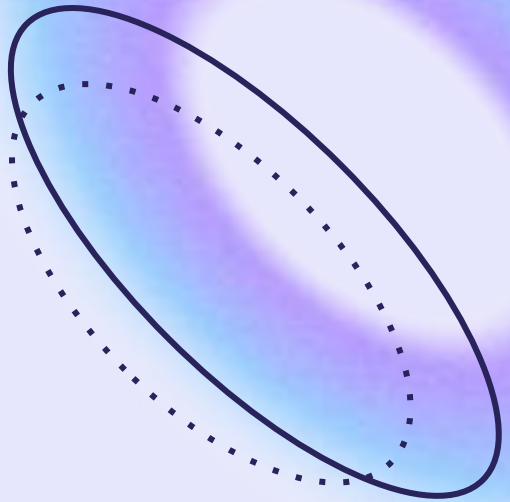



REMINDER
REMINDER_ID
REMINDER_TYPE
REMINDER_DATETIME
USER_IDN
TASK_ID
TASK
TASK_ID
TASK_TITLE
TASK_DESCRIPTION
TASK_CREATED
TASK_DUEDATETIME
TASK_REMINDER_SETTINGS
TASK_STATUS
TASK_OVERDUE
USER_IDN
CALENDAR_ID
CALENDAR
CALENDAR_ID
CALENDAR_TITLE
CALENDAR_WEEK
CALENDAR_MONTH
CALENDAR_YEAR
CALENDAR_DESCRIPTION
USER_IDN
SHARING_ID
SHARING
SHARING_ID
SHARING_TYPE
SHARING_RECIPIENT
SHARING_TOGGLE
USER INFO
USER_IDN
USER_EMAIL
USER_PASSWORD
USER_FNAME
USER_LNAME
DATE_CREATED

06.

Data Dictionary

Content of Data



STUDENT TASK CALENDAR SYSTEM

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCED TABLE
USER_INFO	USER_IDN	User ID	INT	999999		Y	PK	
	USER_EMAIL	User Email Address	VARCHAR(25)	Xxxxxxxxx		Y		
	USER_PASSWORD	User Password	VARCHAR(20)	Xxxxxxxxx		Y		
	USER_FNAME	User First Name	VARCHAR(25)	Xxxxxxxxx		Y		
	USER_LNAME	User Last Name	VARCHAR(15)	Xxxxxxxxx		Y		
	DATE_CREATED	User Date Created	DATETIME	YYYY-MM-DD HH:MM:SS		Y		
SHARING	SHARING_ID	Sharing ID	INT	999999		Y	PK	
	SHARING_TYPE	Sharing Type	VARCHAR(10)	Xxxxxxxxx		Y		
	SHARING_RECEIPIENT	Sharing Receipient	DATETIME	YYYY-MM-DD HH:MM:SS		Y		
	SHARING_TOGGLE	Sharing Toggle	BIT	1	0-1	Y		
	USER_IDN	User ID	INt	999999		Y	FK	USER_INFO
CALENDAR	CALENDAR_ID	Calendar ID	INT	999999		Y	PK	
	CALENDAR_TITLE	Calendar Title	VARCHAR(20)	Xxxxxxxxx		Y		
	CALENDAR_WEEK	Calendar Week	CHAR(3)	Xxx	W01-W52	Y		
	CALENDAR_MONTH	Calendar Month	CHAR(3)	Xxx	M01-M52	Y		
	CALENDAR_YEAR	Calendary Year	INT	9999		Y		
	CALENDAR_DESCRIPTION	Calendar Description	VARCHAR (MAX)	Xxxxxxxxx				
	USER_IDN	User ID	INT	9999999		Y	FK1	USER_INFO
	SHARING_ID	Sharing ID	INT	999999		Y	FK2	SHARING
TASK	TASK_ID	Task ID	INT	999999		Y	PK	
	TASK_TITLE	Task Title	VARCHAR(20)	Xxxxxxxxx		Y		
	TASK_DESCRIPTION	Task Description	VARCHAR (MAX)	Xxxxxxxxx				

	TASK_CREATED	Task Created Time	DATETIME	YYYY-MM-DD HH:MM:SS		Y		
	TASK_DUEDATETIME	Task Due Date and Time	DATETIME	YYYY-MM-DD HH:MM:SS		Y		
	TASK_REMINDER_SETTINGS	Task Reminder Settings	BIT	1	0-1	Y		
	TASK_STATUS	Task Status	VARCHAR(5)	Xxxxx		Y		
	TASK_OVERDUE	Task Overdue Flag	CHAR(1)	X		Y		
	USER_IDN	User ID	INT	999999		Y	FK1	USER_INFO
	CALENDAR_ID	Calendar ID	INT	999999		Y	FK2	CALENDAR
REMINDER	REMINDER_ID	Reminder ID	INT	999999		Y	PK	
	REMINDER_TYPE	Reminder Type	VARCHAR(20)	Xxxxxxxxx		Y		
	REMINDER_DATETIME	Reminder Date and Time	DATETIME	YYYY-MM-DD HH:MM:SS		Y		
	USER_IDN	User ID	INT	999999		Y	FK1	USER_INFO
	TASK_ID	Task ID	INT	999999		Y	FK2	TASK

Thanks

Do you have any questions?

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