POPCHAIN Database Design Specification

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About the book

Overview

- ➤ This book is the table structure design specification of POPCHAIN the blockchain project of POPCHAIN Foundation.
- ➤ POPCHAIN Foundation provides the hardware and software design and the implementation solutions for the project.
- ➤ POPCHAIN Foundation has the final right to modify and interpret this document and the program.

I. Description

- 1. Comply with the data design specification of 3NF regulations
- 2. A row of records must be unique within the table, the table must have a primary key
- 3. Time use timestamp
- 4. Primary Foreign Key Selection

create foreign keys for associated fields, unique foreign keys, avoid using composite keys, and associate unique key fields with foreign keys

5. The length in the table is 0

It means that the actual length is not specified. You can add the specified length according to the actual data. Part of the field length is optimized according to the length of the subsequent business needs.

II. Table summary

Table	Function
th_member	Member
th_accountrecord	Member Account Table
th_datadictionary	Data Dictionary Table
th_device	CDN Device Table
th_deviceonlinerecord	Device Online Record Table
th_deviceonlinerecordtemp	Device Online Record Backup Table
th_logging	Register Login Log Table
th_message	System Message Sheet
th_sms	Mobile Phone SMS Verification Code Table
th_smstemp	Mobile Phone SMS Verification Code Backup Table
th_traderecord	Transaction Record
th_traderecordtemp	Transaction Record Backup Table
th_traderecordlog	Transaction Log Table

III. Table Structure Details

1. Member

Table	the_member			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
memberld	bigint	20	Major key	Not null
loginName	varchar	50	Login name	Not null
nickName	varchar	255	Nickname	Null
password	varchar	255	Password	Not null
description	varchar	255	Description	Null
iconUrl	varchar	255	Icon	Null
birthday	timestamp		Birthday	Null
gender	varchar	2	Gender 0:woman 1 : man	Null
emailAddres	varchar	255	Email address	Null
S				
loginErrorTi	int	2	Login error number	Null
mes				
registerTime	timestamp		Registration time	Not null
lastLoginTim	timestamp		Last login time	Null
е				
locked	bit	1	Whether to lock	Not null
loginNum	int	1	Logintimes	Null
authStatus	int	1	Certificate Status	Null
token	varchar	255	Notification push token	Null
updateTime	timestamp		Basic information	Null
			modification time	
lastUpdateTi	timestamp		Client cache last update time	Null
me				
createTime	timestamp		Creation time	Null
imei	varchar	255	imei	Null
uniqueCode	varchar	255	The first login of the mobile	Null
			phone user to the unique	
			identifier	
lockTime	timestamp		Closure time	Null
lockReason	varchar	255	Closure reason	Null
status	bigint	1	state	Not null
city	varchar	255	User's city	Null

province	varchar	255	User's province	Null
country	varchar	255	User's country	Null
reservedFiel	varchar	255	Reserved field	Null
d				

2. Member Account Table

Table	th_accountrecord	d		
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
accountRecor	bigint	20	Major key	Not null
dld				
memberld	bigint	20	Member ID	Not null
balance	decimal	(20,5)	Balance	Null
benefitBalanc	varchar	(20,5)	Total revenue	Null
е				
createTime	timestamp		Creation time	Not null
updTime	timestamp	64	Modify time	Null
scretKey	varchar	64	Google verifier private key	Null
tradePasswor	varchar	64	Fund password	Null
d				
reservedField	varchar	64	Reserved field	Null

3. Data Dictionary Table

Table	th_datadictionary			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
dictionaryld	bigint	20	Major key	Not null
category	varchar	255	Туре	Not null
code	varchar	255	Code	Not null
value	varchar	255	Value	Not null
categoryText	varchar	255	Type test	Not null
displayOrder	int	8	display serial number	Not null
status	int	1	State	Not null
reservedField	varchar	64	Reserved field	Null

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4. CDN Device Table

Table	th_device			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
deviceld	bigint	20	Device ID	Not null
memberld	bigint	20	Member ID	Not null
deviceAddres	varchar	255	Device address	Not null
S				
bandWidth	decimal	(10,0)	bandwidth	Not null
hardDiskSize	decimal	(10,0)	In terms of M, disk size	Not null
usedSize	decimal	(10,0)	Used size	Not null
externalIP	varchar	128	External IP	Not null
internalIP	varchar	128	Internal IP	Not null
deviceLastUp	timestamp		Last upload update time	Not null
Time				
status	int		State, 0.0ffline, 1.0nline, 2.	Not null
			Device failure,3.Remove	
			binding,4.Lock device	
version	varchar	128	Device version information	Not null
createTime	timestamp		Creation time	Not null
reservedField	varchar	255	Reserved field	Null

5. Device Online Record Table

Table	th_deviceonlinerecord			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
deviceld	bigint	20	Device ID	Not null
memberld	bigint	20	Member ID	Not null
bandWidth	decimal	(10,0)	bandwidth	Not null
hardDiskSize	decimal	(10,0)	In terms of M, disk size	Not null
usedSize	decimal	(10,0)	Used size	Not null
onLineTime	bigint	10	Online time	Not null
deviceLastUp	timestamp		Last upload time	Not null
Time				
deviceUpTime	int		Upload time	Not null
createTime	timestamp		Creation time	Not null
reservedField	varchar	255	Reserved field	Null

6. Device Online Record Backup Table

Table	th_deviceonlinere	th_deviceonlinerecordtemp		
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
deviceld	bigint	20	Device ID	Not null
memberld	bigint	20	Member ID	Not null
bandWidth	decimal	(10,0)	bandwidth	Not null
hardDiskSize	decimal	(10,0)	In terms of M, disk size	Not null
usedSize	decimal	(10,0)	Used size	Not null
onLineTime	bigint	10	Online time	Not null
deviceLastUp	timestamp		Last upload time	Not null
Time				
deviceUpTime	int		Upload time	Not null
createTime	timestamp		Creation time	Not null
reservedField	varchar	255	Reserved field	Null

7. Register Login Log Table

Table	th_logging			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
id	bigint	20	Device ID	Not null
memberld	bigint	20	Member ID	Not null
loginName	varchar	64	User name	Not null
devicelp	varchar	20	IP	Not null
os	varchar	20	Client type	Null
brand	varchar	50	Mobile brand	Null
model	varchar	50	Device No	Null
version	varchar	20	Version No	Null
loginTime	timestamp		Login time	Not null
type	varchar	1	User type: reserved	
operationType	varchar	1	Operation type: 0: Register	Not null
			write, 1: Login write	
imei	varchar	40	imei	Null

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8. System Message Sheet

Table	th_message			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
messageld	bigint	20	ID	Not null
messageText	varchar	255	Message text value	Not null
messageCate	varchar	255	Message type	Not null
gory				
createTime	timestamp		Creation time	Not null
remark	varchar	255	Note	Null
reservedField	varchar	255	Reserved field	Null

9. Mobile Phone SMS Verification Code Table

Table	th_sms			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
id	bigint	20	ID	Not null
phoneNumbe	varchar	20	Mobile number	Not null
r				
content	varchar	255	Message content	Not null
verificationCo	varchar	20	Verification code	Not null
de				
sendTime	timestamp		Send time	Not null
receiveTime	timestamp		Receive time	Not null
result	varchar	32	Returned value	Not null
smsType	varchar	20	Message type (1: verification	Not null
			code)	
isReceived	tinyint	1	Have you received any	Not null
			messages (1: received,0: not	
			received)	

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10. Mobile Phone SMS Verification Code Backup Table

Table	th_smstemp			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
id	bigint	20	ID	Not null
phoneNumber	varchar	20	Mobile number	Not null
sendTime	timestamp		Send time	Not null
smsType	varchar	20	Message type (1: verification	Not null
			code)	
verificationCo	varchar	20	Verification code	Not null
de				

11. Transaction Record

Table	th_traderecord			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
tradeRecordI	bigint	20	ID	Not null
d				
memberld	bigint	20	Member ID	Not null
deviceld	bigint	20	Device ID	Not null
serviceType	varchar	4	Service type (0: revenue,1:	Not null
			withdrawal)	
status	int	1	Status: 0 failed, 1 successful,	Not null
			2 other	
postTime	timestamp		Submission time	Not null
balance	decimal	(20,5)	Income, withdrawal - coin	Not null
			amount	
onLineTime	bigint	20	Online time	Not null
tradeSendAd	varchar	255	Transaction address	Not null
dress			information	
tradeReciveA	varchar	255	The transaction receiving	Not null
ddress			address information	
createTime	timestamp		Creation time	Not null
reservedField	varchar	255	Reserved field	Null

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12. Transaction Record Backup Table

Table	th_traderecordtemp			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
tradeRecordId	bigint	20	ID	Not null
memberld	bigint	20	Member ID	Not null
deviceld	bigint	20	Device ID	Not null
serviceType	varchar	4	Service type (0: revenue,1:	Not null
			withdrawal)	
status	int	1	Status: 0 failed, 1 successful,	Not null
			2 other	
postTime	timestamp		Submission time	Not null
balance	decimal	(20,5)	Income, withdrawal - coin	Not null
			amount	
onLineTime	bigint	20	Online time	Not null
tradeSendAdd	varchar	255	Transaction address	Not null
ress			information	
tradeReciveA	varchar	255	The transaction receiving	Not null
ddress			address information	
createTime	timestamp	_	Creation time	Not null
reservedField	varchar	255	Reserved field	Null

13. Transaction Log Table

Table	th_traderecordlog			
Listing	Datatype	Length	Meaning	Null/not
	(precision			null
	range)			
traderRecordL	bigint	20	ID	Not null
ogld				
memberld	bigint	20	Member ID	Not null
tradeRecordId	varchar	20	Transaction ID	Not null
action	int	1	Action 0: withdraw coin	Not null
balanceBefore	timestamp	(20,5)	The coin amount before the	Not null
			transaction	
balanceAfter	decimal	(20,5)	The coin amount after the	Not null
			transaction	
createTime	bigint	20	Creation time	Not null
reservedField	varchar	255	Reserved field	Null