Schema with Normalization Analysis

Team 11
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User

userId	Int unsigned	Primary Key, auto_increment
userName	varchar(16)	Candidate Key, Not null
password	varchar(255)	Not null
isAdmin	bool(int)	Not null, default false
isBanned	bool	Not null, default false

userId -> userName, password, isAdmin,isBanned
userName -> userId
4NF

Task

taskId	int	Primary Key, auto_increment
taskName	varchar(50)	Candidate Key, Not null, unique
taskDescription	varchar(1000)	
category	varchar(50)	Not null
due	date	Not null
priority	int	1, 2, 3, Not null
progress	varchar(1000)	Not null
progressTime	DATETIME	Not null
modTime	Timestamp	Not null
creatorId	int	Foreign key References User
isComplete	bool	Not null

taskId -> taskName, taskDescription, category, due, priority, progress, pTimestamp, tTimestamp, creatorId
taskName -> taskId
4NF

Groups

groupId	int	Primary Key, auto_increment
groupName	varchar(50)	Candidate Key, Not null
groupDescription	varchar(500)	
creatorId	int	Foreign key References User

groupId -> groupName, groupDescription, creatorId
groupName -> groupId
4NF

User_Group

userId	int	Foreign Key References User
groupId	int	Foreign Key References Group

Task_Group

taskId	int	Foreign Key References Task
groupId	int	Foreign Key References Group