

Teams				
PK/FK	Name	Description	Type	Constraint
PK	team_id	Unique team id #	INTEGER	PRIMARY_KEY
	name		TEXT	NOT NULL

Tasks				
PK/FK	Name	Description	Type	Constraint
PK	task_id	Unique task id #	INTEGER	PRIMARY_KEY
	name			
FK	project_id		INTEGER	FK for Projects(project_id)
FK	status_id		INTEGER	FK for Statuses(status_id)
	creation_date		DATE	DEFAULT now()

Users				
PK/FK	Name	Description	Type	Constraint
PK	user_id	Unique id #	INTEGER	PRIMARY_KEY
	user_name	LDAP	TEXT	CHECK length() > 5
FK	role_id		INTEGER	FK for Roles(role_id)
	password		TEXT	CHECK length() > 8

Project				
PK/FK	Name	Description	Type	Constraint
PK	project_id	Unique id #	INTEGER	PRIMARY_KEY
	name		TEXT	CHECK length() > 0
	description		TEXT	CHECK length() < 200

Actions				
PK/FK	Name	Description	Type	Constraint
PK	action_id	Unique id #	INTEGER	PRIMARY_KEY
FK	user_id	Id of author of action	INTEGER	FK for Users(user_id)
	label	Type of action	TEXT	#Fixed list of labels
FK	task_id	Id where action belongs	INTEGER	FK for Tasks(task_id)
	time	Time of action	DATE	DEFAULT now()::date
	object	Object of action	JSON	

Statuses				
PK/FK	Name	Description	Type	Constraint
PK	statuse_id	Unique id #	INTEGER	PRIMARY_KEY
	name		TEXT	CHECK length() < 15

Roles				
PK/FK	Name	Description	Type	Constraint
PK	role_id	Unique id #	INTEGER	PRIMARY_KEY
	name		TEXT	

SCD4 – версионирование статусов задач с помощью новой таблицы, так как обращение к истории будет во много раз реже, чем к текущим статусам.

Statuses history				
PK/FK	Name	Description	Type	Constraint
PK, FK	task_id		INTEGER	FK for Tasks.task_id
PK, FK	status_id		INTEGER	FK for Statuses.status_id
	valid_untill		DATE	DEFAULT now()

Teams X Projects				
PK/FK	Name	Description	Type	Constraint
PK, FK	team_id		INTEGER	
PK, FK	project_id		INTEGER	

Projects X Statuses				
PK/FK	Name	Description	Type	Constraint
PK, FK	project_id		INTEGER	
PK, FK	status_id		INTEGER	

Project X Users				
PK/FK	Name	Description	Type	Constraint
PK, FK	project_id		INTEGER	
PK, FK	user_id		INTEGER	