

[SFSC] Database ER Diagram v0.5

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Premade Schedule
(for some future db version, not 0.5)

P_SUBCATEGORY			
PK	pSubCategoryID	int	
	title	varchar(32)	
	countsTowardStaffing	bool	

P_USER		
PK	pUserID	int
FK	userID	int

P_SUBCATEGORY_USER		
PK	pSubCategoryUserID	int
FK	pUserID	int
FK	pSubcategoryID	int

P_SUBCATEGORY_BID_ORDER		
PK	pSubcategoryBidOrderID	int
FK	pSubcategoryID	int
	bidOrder	int

P_SHIFT_TYPE		
PK	pShiftTypeID	int
UNIQ	shiftName	varchar(32)

VEHICLE			
PK	scheduleVehicleID	int	
	make	varchar(32)	
	model	varchar(32)	
	year	int	
	vehicleNumber	int	

Currently if you need to create a bid schedule, you have to repeat the same process over and over again: 1) create subcategories 2) assign users 3) create shift types and so on. The premade schedule is like a template (set up by an administrator) so at the push of a button, a schedule is set up using these values so the administrator in charge of creating bid schedules doesn't have to repeat the bid creation process over and over again. This will be a user story.

P-sheets. Still needs a bit of work.

P_SHEET			
PK	pSheetID	int	
UNIQ1	pSheetDate	date	
FK, UNIQ1	bidScheduleID	int	

PS_TIME_SLOT			
PK	psTimeSlotID	int	
FK, UNIQ1	timeSlotID	int	
FK, UNIQ1	pSheetID	int	
FK	scheduleVehicleID	int	

DAY_OFF_REQUEST			
PK	dayOffRequestID	int	
FK, UNIQ1	psTimeSlotID	int	
	reasonForRequest	text	
	dateTimeRequested	datetime	

A subcategory with bidOrder 0 votes first, then 1, then 2, and so on...

SUBCATEGORY_BID_ORDER			
PK	subCategoryBidOrderID	int	
FK	subCategoryID	int	
	bidOrder	int	

USER			
PK	id	int	
UNIQ	email	varchar(255)	
FK1	privilegeID	int	
	password	varchar(255)	
	first_name	varchar(32)	
	last_name	varchar(64)	
	dateHired	date	
	userBlocked	boolean	

USER_TURN_NOTICE			
PK	userTurnNoticeID	int	
FK1, UNIQ1	userID	int	
	bidMade	boolean	
FK2, UNIQ1, UNIQ2	bidScheduleID	int	
UNIQ2	turnNumber	int	

BID_SCHEDULE			
PK	bidScheduleID	int	
	scheduleStart	datetime	
	scheduleEnd	datetime	
UNIQ	name	varchar(64)	
	dateCreated	datetime	
FK	bidScheduleStateID	int	

BID_SCHEDULE_STATE			
PK	bidScheduleStateID	int	
UNIQ	name	varchar(32)	
	description	text	

States such as: Closed, Open, Paused, and JustCreated

SUBCATEGORY			
PK	subCategoryID	int	
	title	varchar(32)	
	countsTowardStaffing	bool	
FK	bidScheduleID	int	
	isDeleted	bool	

SUBCATEGORY_USER			
PK	subCategoryUserID	int	
FK, UNIQ1	userID	int	
FK, UNIQ1	subCategoryID	int	

PRIVILEGE		
PK	privilegeID	int
	Name	varchar(32)

SHIFT_TYPE		
PK	shiftTypeID	int
	shiftName	varchar(32)
FK	bidScheduleID	int

TIME_SLOT			
PK	timeSlotID	int	
	startTime	time	
	endTime	time	
FK	userID	int	
FK	shiftTypeID	int	
FK	subCategoryID	int	

DAY_OFF			
PK	dayOffID	int	
FK, UNIQ1	timeSlotID	int	
FK, UNIQ1	dayOfWeekID	int	

DAY_OF_WEEK		
PK	dayOfWeekID	int
	dayOfWeekName	varchar(9)

WORK_DAY_OVERRIDE			
PK	workDayOverrideID	int	
UNIQ1, FK	timeSlotID	int	
UNIQ1	dayOfWeekID	tinyint	
	startTime	time	
	endTime	time	

The fleet of vehicles available for a schedule

SCHEDULE_VEHICLE			
PK	scheduleVehicleID	int	
FK, UNIQ1	bidScheduleID	int	
	make	varchar(32)	
	model	varchar(32)	
	year	int	
UNIQ1	vehicleNumber	int	