**Required Per Our Conversation** (*Or Per My Testing that not changing it introduces a bug*):

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**Added** : $table->engine = 'InnoDB';

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And: Changed $table->date('YEAR'); TO:

Changed $table->string('year', 4)->nullable();

* Reason: When capitalized the value saves in the database but in the web app the YEAR will not REDISPLAYor reappear WHEN editing the VEHICLE so the user does not know the value.

When field is date type it looks for 2016-10-12 02:10:35 format.

**Note:** In your SQL dump you gave me on the weekend, you worked around this by **manually** changing field value to “**year**” and you changed date type to **year(4)** … Laravel does not have this date type, but the other one works just as well.

And: Changed following fields to nullable since they are not required (currently on insert they are filled with empty string) – this is for consistency with our other tables TO:

$table->string('vehicle\_number')->nullable();

$table->string('make')->nullable();

$table->string('model')->nullable();

$table->string('year', 4)->nullable();

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**Changed Syntax to Be Explicit – will be consistent naming on all FK’s**: $table->foreign('station\_id')->references('id')->on('stations'); TO

$table->foreign('station\_id', 'fk\_all\_assets\_station')->references('id')->on('stations');

**Added** :  **->onUpdate('cascade');**

**To all foreign key constraints o***nDelete(‘restrict”) and onUpdate(‘restrict’) are defaults if not specified*

Fix Rollback to drop foreign key,index and column and not whole table: Changed DROP only for all FK’s

public function down()

*Schema::table('all\_assets', function (Blueprint $table) {*

*$table->dropForeign('fk\_personnel');*

*$table->dropIndex('fk\_personnel');*

*$table->dropColumn('personnel\_id');*

Note: I did not add this, but when if you do asset to asset map, consider adding a parent\_serialno\_tag as foreign key to all\_assets table

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**Added** : **To all foreign key constraints o***nDelete(‘restrict”) and onUpdate(‘restrict’) are defaults if not specified*

Fix Rollback to drop foreign key and column and not whole table: Changed DROP only for all FK’s

public function down()

Schema::table('all\_assets', function (Blueprint $table) {

$table->dropForeign('fk\_all\_assets\_station');

$table->dropIndex('fk\_all\_assets\_station');

$table->dropColumn('station\_id');

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CHANGED “onDelete ("cascade") to onUpdate(‘cascade’); (onDelete(‘restrict’) is the norm and default.

TO: $table->foreign('all\_asset\_id')->references('id')->on('all\_assets')->onUpdate(‘cascade’);

$table->foreign('grant\_id')->references('id')->on('grants')->onUpdate(‘cascade’);

* ALSO : When there are **duplicate FK names in DB** I get an error. I am using a conventional Foreign Key naming scheme that uses the *from and to table nomenclature:*

**EXAMPLE:**

$table->foreign('all\_asset\_id', fk\_asset\_grant\_all\_asset)->references('id')->on('all\_assets')->onUpdate('Cascade');

$table->foreign('grant\_id', fk\_asset\_grant\_grant)->references('id')->on('grants')->onUpdate('Cascade');

Note: I did not add this,( *this may not be a current requirement*), but in any split grants application I have ever worked with, you need to split the dollars out by value or by percentage in the match record…you may want to add a split\_grant\_value field to anticipate that likelihood. If either vehicle grants or station grants are in scope, you may want to consider adding the station foreign key and the vehicle foreign key in this same table – with all fields permitting nulls for all\_assets, vehicles and station FK but **not for** grant FK.