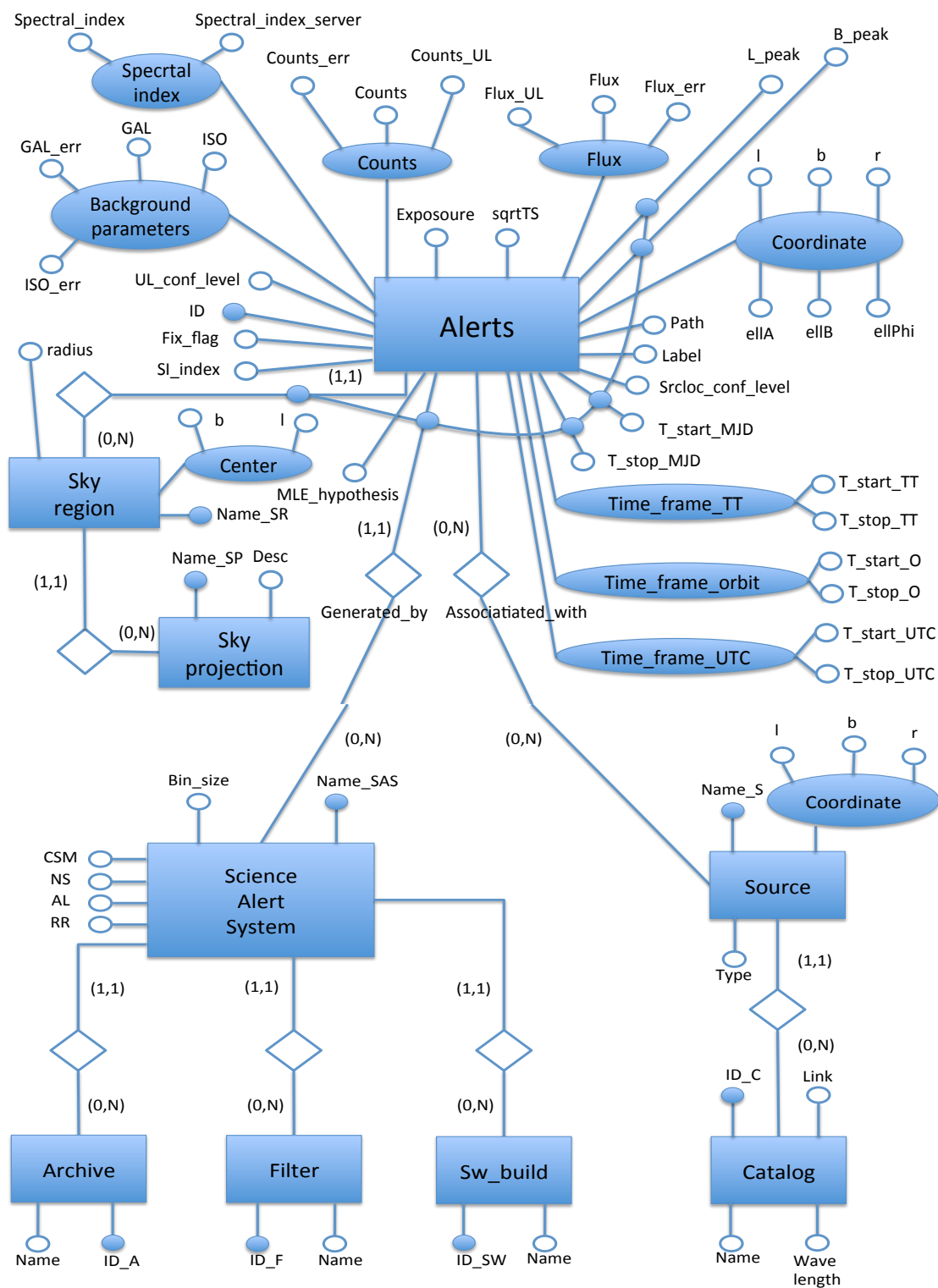


Tesina di Nicolò Parmiggiani

Sviluppo App AGILE e quey da App AGILE a database MySQL tramite get a pagina php.

Modello E/R



Modello Relazionale

Sky_projection (Name_SP, Desc)

Sky_region (Name_SR, B, L, Radius, Name_SP)

FK: Name_SP **REFERENCES** Sky_projection

Alerts (L_peak, B_peak, T_start_MJD, T_stop_MJD, Name_SR, Name_SAS, SI_index, Fix_flag, Srcloc_conf_level, UL_conf_level, GAL, GAL_err, ISO, ISO_err, Label, sqrtTS, Counts, Counts_err, Counts_UL, Flux, Flux_err, Flux_UL, Spectral_index, Spectral_index_err, l, b, r, ell_A, ell_B, ell_phi, Path, MLE_hypothesis, T_start_TT, T_stop_TT, T_start_O, T_stop_O, T_start_UTC, T_stop_UTC, Exposoure, ID)

FK: Name_SR **REFERENCES** Sky_region

FK: Name_SAS **REFERENDES** ScienceAlertSystem

AK: ID

Catalog (ID_C, Name, Link, Wave_length)

Source (Name_S, Type, L, B, r, ID_C)

FK: ID_C **REFERENCES** Catalog

Alerts_Source (Name_SR, L_peak, B_peak, T_start_MJD, T_stop_MJD, Name_S)

FK: L_peak, B_peak, T_start_MJD, T_stop_MJD, Name_SR, Name_SAS **REFERENCES** Alerts

FK: Name_S **REFERENCES** Source

Archive (ID_A, Name)

Filter (ID_F, Name)

SW_build (ID_SW, Name)

ScienceAlertSystem (Name_SAS, Bin_size, RR, AL, NS, CSM, ID_A, ID_F, ID_SW)

FK: ID_A **REFERENCES** Archive

FK: ID_F **REFERENCES** Filter

FK: ID_SW **REFERENCES** SW_build

Modello relazionali in Visual Paradigm

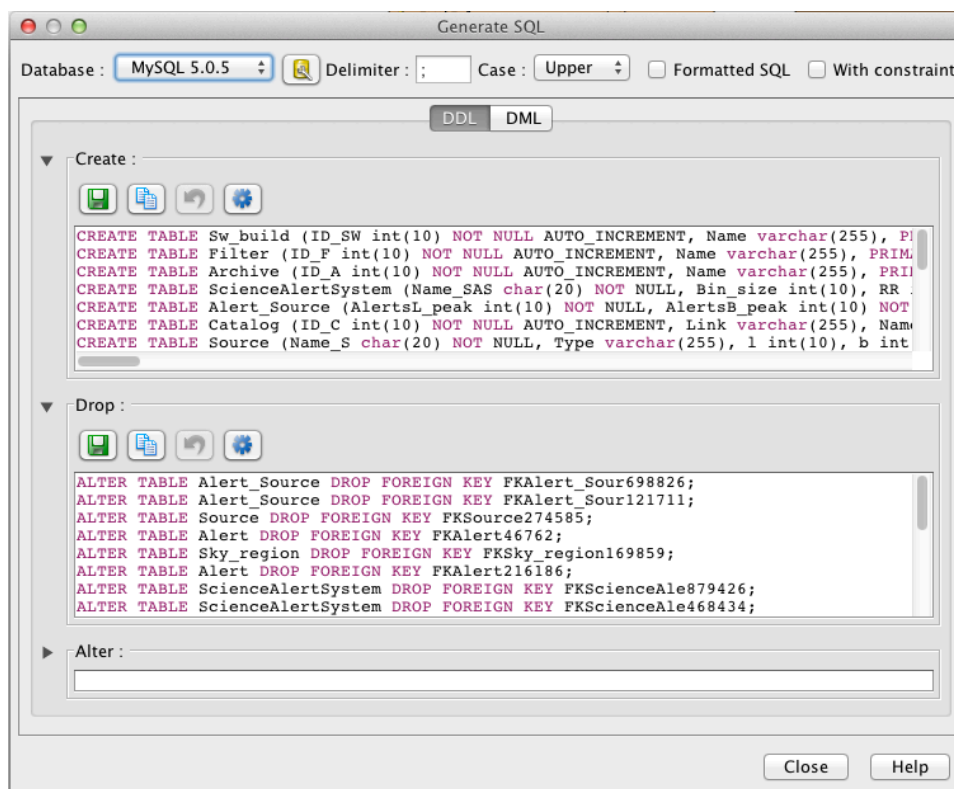
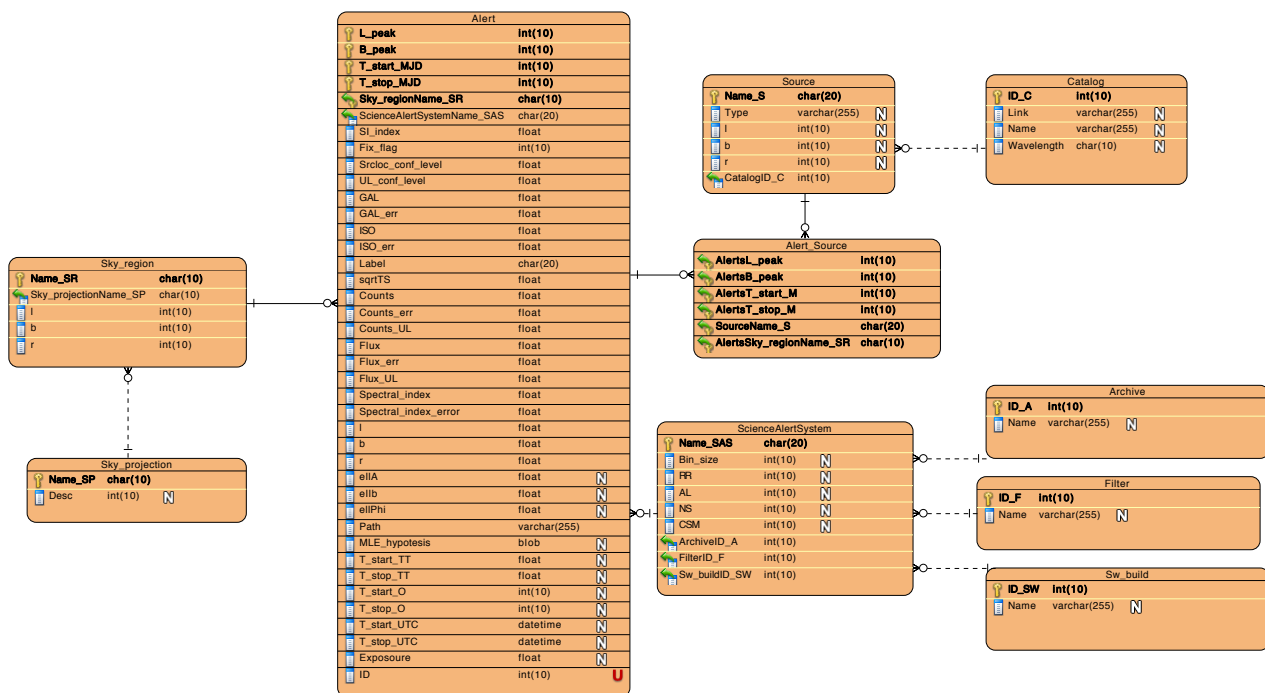


Figure 1: Generazione codice SQL con VP

SQL

```
CREATE TABLE Sw_build (ID_SW int(10) NOT NULL AUTO_INCREMENT, Name varchar(255),  
PRIMARY KEY (ID_SW));
```

```
CREATE TABLE Filter (ID_F int(10) NOT NULL AUTO_INCREMENT, Name varchar(255),  
PRIMARY KEY (ID_F));
```

```
CREATE TABLE Archive (ID_A int(10) NOT NULL AUTO_INCREMENT, Name varchar(255),  
PRIMARY KEY (ID_A));
```

```
CREATE TABLE ScienceAlertSystem (Name_SAS char(20) NOT NULL, Bin_size int(10), RR  
int(10), AL int(10), NS int(10), CSM int(10), ArchiveID_A int(10) NOT NULL, FilterID_F int(10)  
NOT NULL, Sw_buildID_SW int(10) NOT NULL, PRIMARY KEY (Name_SAS));
```

```
CREATE TABLE Alert_Source (AlertsL_peak int(10) NOT NULL, AlertsB_peak int(10) NOT  
NULL, AlertsT_start_M int(10) NOT NULL, AlertsT_stop_M int(10) NOT NULL, SourceName_S  
char(20) NOT NULL, AlertsSky_regionName_SR char(10) NOT NULL, PRIMARY KEY  
(AlertsL_peak, AlertsB_peak, AlertsT_start_M, AlertsT_stop_M, SourceName_S,  
AlertsSky_regionName_SR));
```

```
CREATE TABLE Catalog (ID_C int(10) NOT NULL AUTO_INCREMENT, Link varchar(255),  
Name varchar(255), Wavelength char(10), PRIMARY KEY (ID_C));
```

```
CREATE TABLE Source (Name_S char(20) NOT NULL, Type varchar(255), l int(10), b int(10), r  
int(10), CatalogID_C int(10) NOT NULL, PRIMARY KEY (Name_S));
```

```
CREATE TABLE Sky_region (Name_SR char(10) NOT NULL, Sky_projectionName_SP char(10)  
NOT NULL, l int(10) NOT NULL, b int(10) NOT NULL, r int(10) NOT NULL, PRIMARY KEY  
(Name_SR));
```

```
CREATE TABLE Sky_projection (Name_SP char(10) NOT NULL, `Desc` int(10), PRIMARY KEY  
(Name_SP));
```

```
CREATE TABLE Alert (L_peak int(10) NOT NULL, B_peak int(10) NOT NULL, T_start_MJD  
int(10) NOT NULL, T_stop_MJD int(10) NOT NULL, Sky_regionName_SR char(10) NOT NULL,  
ScienceAlertSystemName_SAS char(20) NOT NULL, SI_index float NOT NULL, Fix_flag int(10)  
NOT NULL, Srcloc_conf_level float NOT NULL, UL_conf_level float NOT NULL, GAL float NOT  
NULL, GAL_err float NOT NULL, ISO float NOT NULL, ISO_err float NOT NULL, Label char(20)  
NOT NULL, sqrtTS float NOT NULL, Counts float NOT NULL, Counts_err float NOT NULL,  
Counts_UL float NOT NULL, Flux float NOT NULL, Flux_err float NOT NULL, Flux_UL float NOT  
NULL, Spectral_index float NOT NULL, Spectral_index_error float NOT NULL, l float NOT NULL,  
b float NOT NULL, r float NOT NULL, ellA float, ellb float, ellPhi float, Path varchar(255) NOT  
NULL, MLE_hypotesis blob, T_start_TT float, T_stop_TT float, T_start_O int(10), T_stop_O  
int(10), T_start_UTC datetime NULL, T_stop_UTC datetime NULL, Exposoure float, ID int(10)  
NOT NULL UNIQUE, PRIMARY KEY (L_peak, B_peak, T_start_MJD, T_stop_MJD,  
Sky_regionName_SR));
```

```
ALTER TABLE Alert_Source ADD INDEX FKAlert_Sour698826 (AlertsL_peak, AlertsB_peak,  
AlertsT_start_M, AlertsT_stop_M, AlertsSky_regionName_SR), ADD CONSTRAINT  
FKAlert_Sour698826 FOREIGN KEY (AlertsL_peak, AlertsB_peak, AlertsT_start_M,
```

AlertsT_stop_M, AlertsSky_regionName_SR) REFERENCES Alert (L_peak, B_peak, T_start_MJD, T_stop_MJD, Sky_regionName_SR);

ALTER TABLE Alert_Source ADD INDEX FKAlert_Sour121711 (SourceName_S), ADD CONSTRAINT FKAlert_Sour121711 FOREIGN KEY (SourceName_S) REFERENCES Source (Name_S);

ALTER TABLE Source ADD INDEX FKSource274585 (CatalogID_C), ADD CONSTRAINT FKSource274585 FOREIGN KEY (CatalogID_C) REFERENCES Catalog (ID_C);

ALTER TABLE Alert ADD INDEX FKAlert46762 (ScienceAlertSystemName_SAS), ADD CONSTRAINT FKAlert46762 FOREIGN KEY (ScienceAlertSystemName_SAS) REFERENCES ScienceAlertSystem (Name_SAS);

ALTER TABLE Sky_region ADD INDEX FKSky_region169859 (Sky_projectionName_SP), ADD CONSTRAINT FKSky_region169859 FOREIGN KEY (Sky_projectionName_SP) REFERENCES Sky_projection (Name_SP);

ALTER TABLE Alert ADD INDEX FKAlert216186 (Sky_regionName_SR), ADD CONSTRAINT FKAlert216186 FOREIGN KEY (Sky_regionName_SR) REFERENCES Sky_region (Name_SR);
ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle879426 (Sw_buildID_SW), ADD CONSTRAINT FKScienceAle879426 FOREIGN KEY (Sw_buildID_SW) REFERENCES Sw_build (ID_SW);

ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle468434 (FilterID_F), ADD CONSTRAINT FKScienceAle468434 FOREIGN KEY (FilterID_F) REFERENCES Filter (ID_F);
ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle930428 (ArchiveID_A), ADD CONSTRAINT FKScienceAle930428 FOREIGN KEY (ArchiveID_A) REFERENCES Archive (ID_A);

phpMyAdmin

(Recent tables) ...

agilesas

No tables found in database.

Create table

localhost - agilesas

Structure SQL Search Query Export Import Operations Privileges Routines More

Run SQL query/queries on database agilesas:

```

12 ALTER TABLE Alert_Source ADD INDEX FKAlert_Sour121711 (SourceName_S), ADD CONSTRAINT
FKAlert_Sour121711 FOREIGN KEY (SourceName_S) REFERENCES Source (Name_S);
13 ALTER TABLE Source ADD INDEX FKSource274585 (CatalogID_C), ADD CONSTRAINT FKSource274585
FOREIGN KEY (CatalogID_C) REFERENCES Catalog (ID_C);
14 ALTER TABLE Alert ADD INDEX FKAlert46762 (ScienceAlertSystemName_SAS), ADD CONSTRAINT
FKAlert46762 FOREIGN KEY (ScienceAlertSystemName_SAS) REFERENCES ScienceAlertSystem (Name_SAS);
15 ALTER TABLE Sky_region ADD INDEX FKSky_region169859 (Sky_projectionName_SP), ADD CONSTRAINT
FKSky_region169859 FOREIGN KEY (Sky_projectionName_SP) REFERENCES Sky_projection (Name_SP);
16 ALTER TABLE Alert ADD INDEX FKAlert216186 (Sky_regionName_SR), ADD CONSTRAINT FKAlert216186
FOREIGN KEY (Sky_regionName_SR) REFERENCES Sky_region (Name_SR);
17 ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle879426 (Sw_buildID_SW), ADD CONSTRAINT
FKScienceAle879426 FOREIGN KEY (Sw_buildID_SW) REFERENCES Sw_build (ID_SW);
18 ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle468434 (FilterID_F), ADD CONSTRAINT
FKScienceAle468434 FOREIGN KEY (FilterID_F) REFERENCES Filter (ID_F);
19 ALTER TABLE ScienceAlertSystem ADD INDEX FKScienceAle930428 (ArchiveID_A), ADD CONSTRAINT

```

Clear

[Delimiter ;] ☒ Show this query here again ☐ Retain query box Go

phpMyAdmin

(Recent tables) ...

agilesas

No tables found in database.

Create table

localhost - agilesas

Structure SQL Search Query Export Import Operations Privileges Routines More

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> Alert		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Alert_Source		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Archive		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Catalog		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Filter		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> ScienceAlertSystem		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Sky_projection		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Sky_region		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Source		0	MyISAM	latin1_swedish_ci	1 KiB	-
<input type="checkbox"/> Sw_build		0	MyISAM	latin1_swedish_ci	1 KiB	-
10 tables	Sum		0	MyISAM latin1_swedish_ci	10 KiB	0 B

☐ Check All / Uncheck All With selected:

Print view Data Dictionary

Create table

Name: Number of columns:

Go

phpMyAdmin

localhost » agilesas » Alert

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Operations](#)
[Triggers](#)

(Recent tables) ...
 agilesas

[Alert](#)
[Alert_Source](#)
[Archive](#)
[Catalog](#)
[Filter](#)
[ScienceAlertSystem](#)
[Sky_projection](#)
[Sky_region](#)
[Source](#)
[Sw_build](#)

Create table

SELECT *
 FROM `Alert`
 LIMIT 0, 30

☐ Profiling
 [\[Inline\]](#)
[\[Edit\]](#)
[\[Explain SQL\]](#)
[\[Create PHP Code\]](#)
[\[Refresh\]](#)

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> 1	<u>L_peak</u>	int(10)			No	None		Change Drop More
<input type="checkbox"/> 2	<u>B_peak</u>	int(10)			No	None		Change Drop More
<input type="checkbox"/> 3	<u>T_start_MJD</u>	int(10)			No	None		Change Drop More
<input type="checkbox"/> 4	<u>T_stop_MJD</u>	int(10)			No	None		Change Drop More
<input type="checkbox"/> 5	<u>Sky_regionName_SR</u>	char(10)	latin1_swedish_ci		No	None		Change Drop More
<input type="checkbox"/> 6	<u>ScienceAlertSystemName_SAS</u>	char(20)	latin1_swedish_ci		No	None		Change Drop More
<input type="checkbox"/> 7	<u>SI_index</u>	float			No	None		Change Drop More
<input type="checkbox"/> 8	<u>Fix_flag</u>	int(10)			No	None		Change Drop More
<input type="checkbox"/> 9	<u>Srcloc_conf_level</u>	float			No	None		Change Drop More
<input type="checkbox"/> 10	<u>UL_conf_level</u>	float			No	None		Change Drop More
<input type="checkbox"/> 11	<u>GAL</u>	float			No	None		Change Drop More
<input type="checkbox"/> 12	<u>GAL_err</u>	float			No	None		Change Drop More
<input type="checkbox"/> 13	<u>ISO</u>	float			No	None		Change Drop More
<input type="checkbox"/> 14	<u>ISO_err</u>	float			No	None		Change Drop More
<input type="checkbox"/> 15	<u>Label</u>	char(20)	latin1_swedish_ci		No	None		Change Drop More
<input type="checkbox"/> 16	<u>sqrTS</u>	float			No	None		Change Drop More
<input type="checkbox"/> 17	<u>Counts</u>	float			No	None		Change Drop More
<input type="checkbox"/> 18	<u>Counts_err</u>	float			No	None		Change Drop More
<input type="checkbox"/> 19	<u>Counts_UL</u>	float			No	None		Change Drop More
<input type="checkbox"/> 20	<u>Flux</u>	float			No	None		Change Drop More
<input type="checkbox"/> 21	<u>Flux_err</u>	float			No	None		Change Drop More
<input type="checkbox"/> 22	<u>Flux_UL</u>	float			No	None		Change Drop More