

# MySQL Table Creation Code

#This file includes all of the code used to create the tables in our database "billboard" which were later populated using PyMySQL and BeautifulSoup

## Table 'artist'

```
CREATE TABLE artist ( artist_id int NOT NULL AUTO_INCREMENT,  
artist_name varchar(255), PRIMARY KEY (artist_id) );
```

```
mysql> DESCRIBE artist;
```

Field	Type	Null	Key	Default	Extra
artist_id	int(11)	NO	PRI	NULL	auto_increment
artist_name	varchar(255)	YES		NULL	

2 rows in set (0.00 sec)

## Table 'song'

```
mysql> CREATE TABLE song ( song_id int NOT NULL AUTO_INCREMENT,  
song_name varchar(255), PRIMARY KEY (song_id) );
```

```
mysql> DESCRIBE song;
```

Field	Type	Null	Key	Default	Extra
song_id	int(11)	NO	PRI	NULL	auto_increment
song_name	varchar(255)	YES		NULL	

2 rows in set (0.00 sec)

## Table 'artist\_song'

```
mysql> CREATE TABLE artist_song ( artist_id int NOT NULL, song_id int NOT NULL, comp_id int NOT NULL AUTO_INCREMENT, PRIMARY KEY (comp_id), FOREIGN KEY (song_id) REFERENCES song(song_id), FOREIGN KEY (artist_id) REFERENCES artist(artist_id) );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> DESCRIBE artist_song;
```

Field	Type	Null	Key	Default	Extra
artist_id	int(11)	NO	MUL	NULL	
song_id	int(11)	NO	MUL	NULL	
comp_id	int(11)	NO	PRI	NULL	auto_increment

```
3 rows in set (0.00 sec)
```

## Table 'top100'

```
mysql> CREATE TABLE top100 ( week_id int NOT NULL, rank int NOT NULL, comp_id int NOT NULL, PRIMARY KEY(week_id,rank), FOREIGN KEY (comp_id) REFERENCES artist_song(comp_id) );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DESCRIBE top100;
```

Field	Type	Null	Key	Default	Extra
week_id	int(11)	NO	PRI	NULL	
rank	int(11)	NO	PRI	NULL	
comp_id	int(11)	NO	MUL	NULL	

```
3 rows in set (0.00 sec)
```

## Table 'week'

```
mysql> CREATE TABLE week ( week_id int NOT NULL AUTO_INCREMENT,  
week_date varchar(40), PRIMARY KEY (week_id) );
```

```
mysql> DESCRIBE week;
```

Field	Type	Null	Key	Default	Extra
week_id	int(11)	NO	PRI	NULL	auto_increment
week_date	varchar(40)	YES		NULL	

```
2 rows in set (0.00 sec)
```