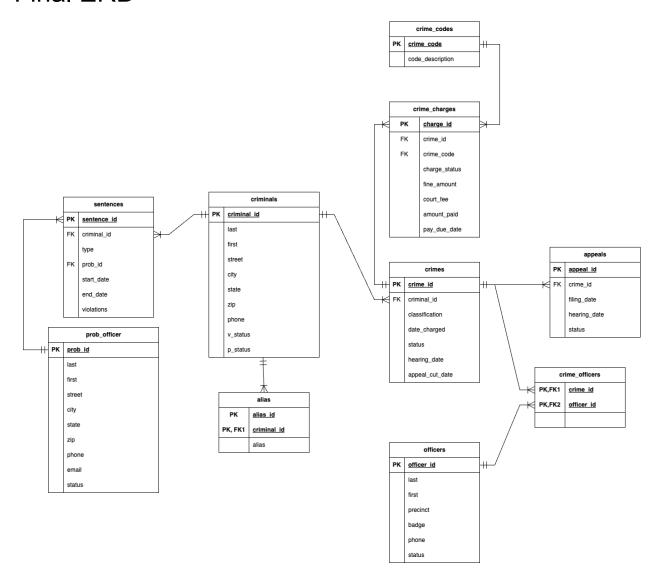
# Final ERD



## **Final Schema Statements**

criminals(<u>criminal\_id</u>, last, first, street, city, state, zip, phone, v\_status, p\_status)

prob\_officer(<u>prob\_id</u>, last, first, street, city, state, zip, phone, email, status)

sentences(<u>sentence\_id</u>, @criminal\_id, @prob\_id, type, start\_date, end\_date, violations)

alias(<u>alias\_id</u>, @criminal\_id, alias)

```
crimes(<u>crime_id</u>, @criminal_id, classification, date_charged, status, hearing_date, appeal_cut_date)
```

crime\_codes(crime\_code, code\_description)

crime\_charges(<u>charge\_id</u>, @crime\_id, @crime\_code, charge\_status, fine\_amount, court\_fee, amount\_paid, pay\_due\_date)

appeals(appeal\_id, @crime\_id, filing\_date, hearing\_date, status)

officers(officer\_id, last, first, precinct, badge, phone, status)

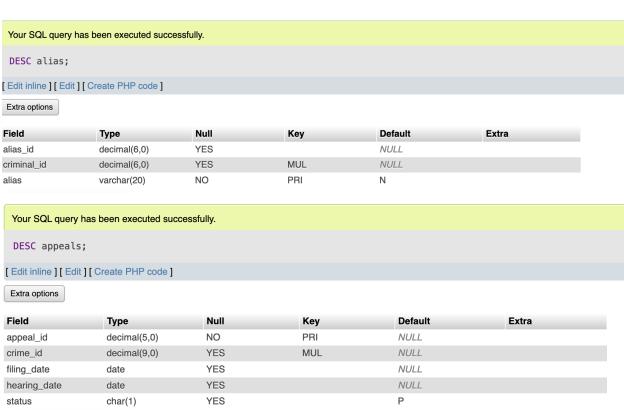
crime\_officers(@crime\_id, @officer\_id)

# **Database Setup Details**

We are hosting a MySQL database on Google Cloud Platform, and have configured our XAMPP and phpMyAdmin instances to connect to the remote database so we can work on it more easily.

We do this because we want to maintain a single source of truth in the cloud which we can access through out phpMyAdmin client.

# **Table MetaData**



Your SQL query has been executed successfully.

DESC crimes;

#### [ Edit inline ] [ Edit ] [ Create PHP code ]

## Extra options

Field	Туре	Null	Key	Default	Extra
crime_id	decimal(9,0)	NO	PRI	NULL	
criminal_id	decimal(6,0)	YES	MUL	NULL	
classification	char(1)	YES		U	
date_charged	date	YES		NULL	
status	char(2)	NO		NULL	
hearing_date	date	YES		NULL	
appeal_cut_date	date	YES		NULL	

Your SQL query has been executed successfully.

DESC crime\_charges;

[ Edit inline ] [ Edit ] [ Create PHP code ]

Extra options

Field	Туре	Null	Key	Default	Extra
charge_id	decimal(10,0)	NO	PRI	NULL	
crime_id	decimal(9,0)	YES	MUL	NULL	
crime_code	decimal(3,0)	YES	MUL	NULL	
charge_status	char(2)	YES		NULL	
fine_amount	decimal(7,2)	YES		NULL	
court_fee	decimal(7,2)	YES		NULL	
amount_paid	decimal(7,2)	YES		NULL	
payment_due_date	date	YES		NULL	

Your SQL query has been executed successfully.

DESC crime\_codes;

[ Edit inline ] [ Edit ] [ Create PHP code ]

Extra options

Field	Туре	Null	Key	Default	Extra
crime_code	decimal(3,0)	NO	PRI	NULL	
code_description	varchar(30)	NO	UNI	NULL	

Your SQL query has been executed successfully.

DESC crime\_officers;

## [ Edit inline ] [ Edit ] [ Create PHP code ]

#### Extra options

Field	Туре	Null	Key	Default	Extra
crime_id	decimal(8,0)	NO	PRI	NULL	
officer_id	decimal(9,0)	NO	PRI	NULL	

Your SQL query has been executed successfully.

DESC criminals;

## [ Edit inline ] [ Edit ] [ Create PHP code ]

#### Extra options

Field	Туре	Null	Key	Default	Extra
criminal_id	decimal(6,0)	NO	PRI	NULL	
last	varchar(15)	YES		NULL	
first	varchar(10)	YES		NULL	
street	varchar(30)	YES		NULL	
city	varchar(20)	YES		NULL	
state	char(2)	YES		NULL	
zip	char(5)	YES		NULL	
phone	char(10)	YES		NULL	
v_status	char(1)	YES		N	
p_status	char(1)	YES		N	

Your SQL query has been executed successfully.

DESC officers;

#### [ Edit inline ] [ Edit ] [ Create PHP code ]

#### Extra options

Field	Туре	Null	Key	Default	Extra
officer_id	decimal(8,0)	NO	PRI	NULL	
last	varchar(15)	YES		NULL	
first	varchar(10)	YES		NULL	
precinct	char(4)	NO		NULL	
badge	varchar(14)	YES	UNI	NULL	
phone	char(10)	YES		NULL	
status	char(1)	YES		A	

Your SQL query has been executed successfully.

DESC prob\_officer;

## [ Edit inline ] [ Edit ] [ Create PHP code ]

#### Extra options

Field	Туре	Null	Key	Default	Extra
prob_id	decimal(5,0)	NO	PRI	NULL	
last	varchar(15)	YES		NULL	
first	varchar(10)	YES		NULL	
street	varchar(30)	YES		NULL	
city	varchar(20)	YES		NULL	
state	char(2)	YES		NULL	
zip	char(5)	YES		NULL	
phone	char(10)	YES		NULL	
email	varchar(30)	YES		NULL	
status	char(1)	NO		NULL	

Your SQL query has been executed successfully.

DESC sentences;

## [ Edit inline ] [ Edit ] [ Create PHP code ]

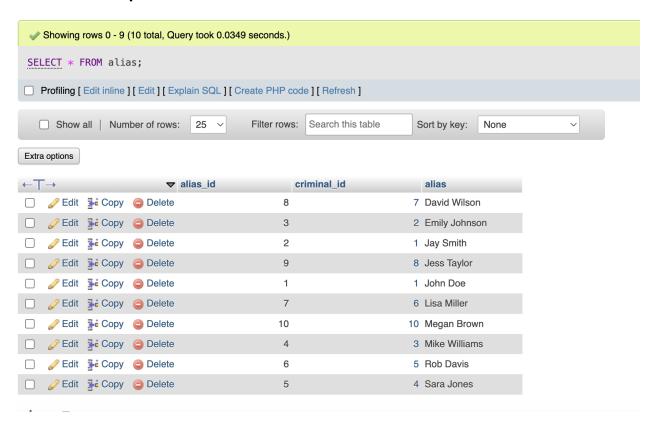
Extra options

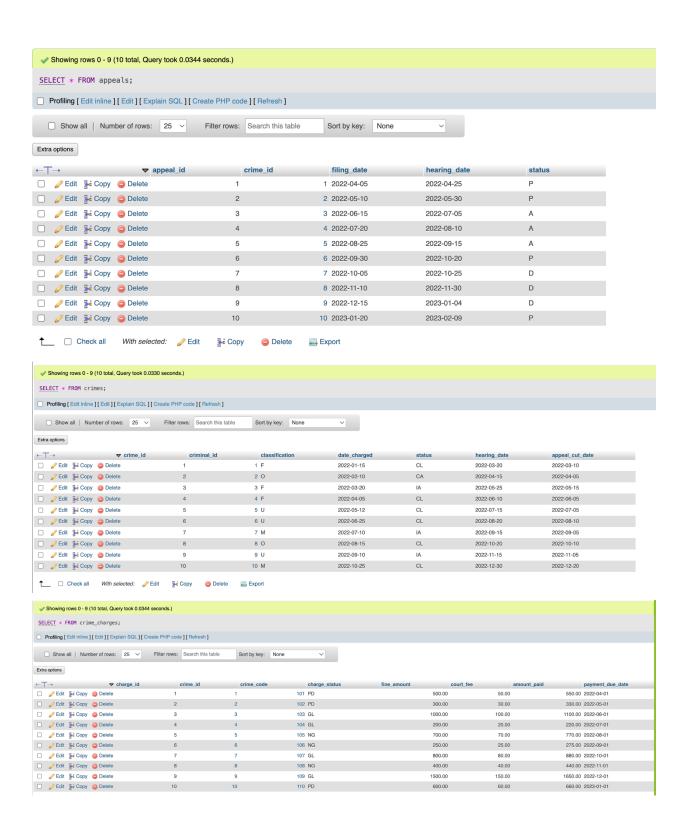
Field	Туре	Null	Key	Default	Extra
sentence_id	decimal(6,0)	NO	PRI	NULL	
criminal_id	decimal(6,0)	YES	MUL	NULL	
type	char(1)	YES		NULL	
prob_id	decimal(5,0)	YES	MUL	NULL	
start_date	date	YES		NULL	
end_date	date	YES		NULL	
violations	decimal(3,0)	NO		NULL	

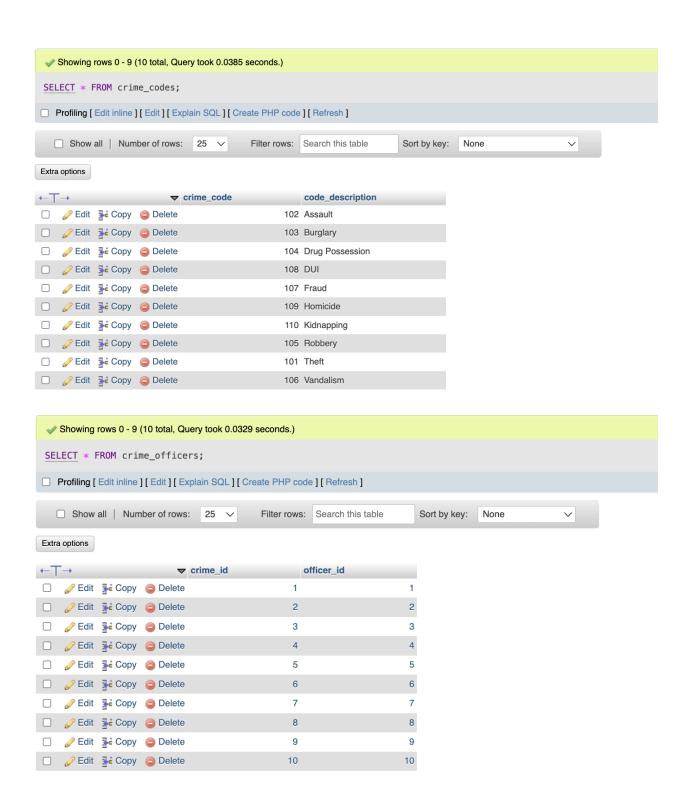
## Rows:

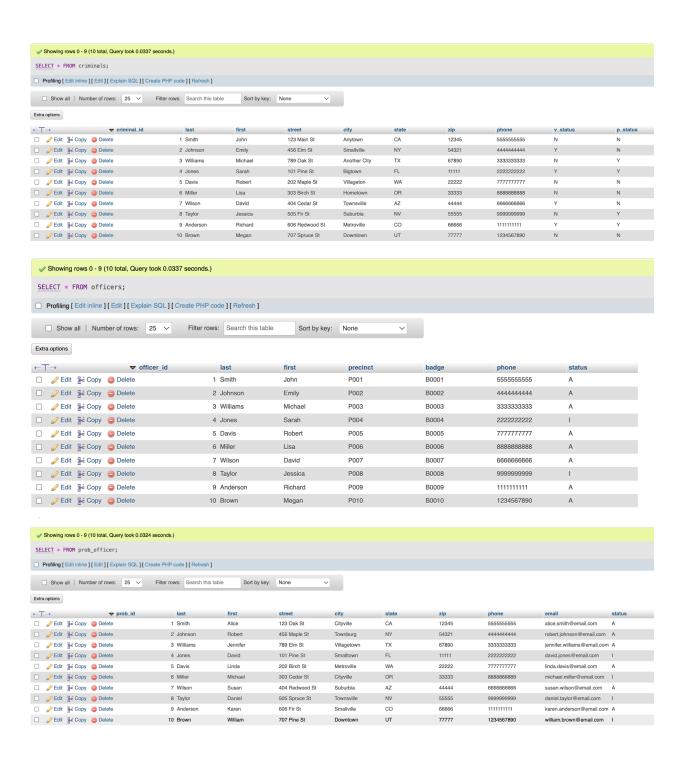
Table 🔺	Actio	on						Rows	0	Туре	Collation	Size	Overhead
alias	*	Browse	M Structure	Rearch	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
appeals	*	Browse	M Structure	Search	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
crimes	*	Browse	M Structure	Rearch	<b>≩</b> Insert	mpty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
crime_charges		Browse	M Structure	Search	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	48.0 KiE	-
crime_codes	*	Browse	M Structure	Rearch	<b>≩</b> Insert	mpty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
crime_officers		Browse	M Structure	Search	<b>≩</b> Insert	⊞ Empty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
criminals	*	Browse	M Structure	Rearch	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	16.0 KiE	-
officers	*	Browse	M Structure	Search	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	32.0 KiE	-
prob_officer	*	Browse	M Structure	Rearch	<b>≩</b> Insert	mEmpty	Drop		10	InnoDB	utf8mb3_general_ci	16.0 KiE	-
sentences		Browse	M Structure	Search	<b>≩</b> Insert	Empty	Drop		10	InnoDB	utf8mb3_general_ci	48.0 KiE	-
10 tables	Sum								100	InnoDB	utf8mb3 general ci	320.0 KiE	0 B

# Data samples









# Sample SQL Commands

Here all the command categories we used

- SELECT
- CREATE
- DESC
- DROP
- INSERT

These are the advanced PL/SQL categories covered by our work.

- PROCEDURE
- CHECK CONSTRAINTS

CREATE and INSERT statements are in COMMANDS.sql, so they are omitted here. The stored procedure creation for one of our sample procedures is also store in the COMMANDS.sql file.

At the bottom of the automatically generated COMMANDS.sql file that we obtained by exporting the database through XAMPP, we have also included our SELECT statements, as recommended by Professor Arfaoui during the Nov. 7 lecture. When importing this file through XAMPP, you *may* encounter an error that states that "This type of clause was previously parsed (near select)". This is a known error with the phpMyAdmin import parser, as noted in the below stackoverflow thread. We have verified that all of our SELECT statements indeed work, and this error is outside of our control.

https://stackoverflow.com/questions/36484077/mysql-parsing-error-in-phpmyadmin-this-type-of-clause-was-previously-parsed