QSS20: Modern Statistical Computing

Unit 14: Work session

Goals for today

- ► Recap of SQL
- ▶ Upcoming deadlines
- ► Final project work session

Recap of SQL

What do you remember?

Recap of SQL

Tips:

- ▶ Use creds .yaml file to access connector—or copy into code (less secure)
- ► Subqueries in () are like functions as in df.apply(func)
- ▶ Use count(*) with group by to aggregate each slice (e.g., by race x crime)

Simple ex. w/ basic syntax:

```
select CASE_ID, AGE_AT_INCIDENT — select cols
from caseinit — tablename
— table ops like joins or subqueries would go here
where AGE_AT_INCIDENT > 40 — condition(s)
```

Ex. creating new col w/ case/when:

```
select *, —take all cols
CASE

WHEN OFFENSE_CATEGORY = UPDATED_OFFENSE_CATEGORY
THEN 'Same offense'
ELSE 'Diff offense'
END as charge_update
from caseinit
```

Where we are

- ► Recap of SQL
- ► Upcoming deadlines
- ► Final project work session

Upcoming deadlines

- Problem set five
 - ► Due this Friday, 03/03
 - Submit in usual way (assign Prof. & TA a GitHub issue)
- Final project presentation
 - ► Delivered in class this coming Monday, 03/06
 - ▶ Please also submit slides before that class:
 - ▶ PDF → Canvas
 - ▶ share w/ Prof. on Overleaf (as with milestone 1)
- Final paper
 - ▶ Due Monday, 03/13 (last day of scheduled finals)
 - ► How to submit:
 - ▶ PDF → Canvas
 - ▶ share w/ Prof. on Overleaf

Where we are

- ► Recap of SQL
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Final project work session

Things to work on:

- Slides for final presentation
- Analysis, codebase development, documentation
- ► Final paper

Places to work:

- ► This classroom
- Outside in hall
- Rockefeller Center atrium (up & downstairs—please mind your volume

Feel free to consult/ask questions:

- ► Prof. Haber
- Ramsey
- Other groups/research teams