Finding Our Paradise

Ashton Forde, Justin Bull, Dion Green

Our Focus

- Dial in the data

- Weigh the input data

- Add New Aspects

Solution #1 Health

- Type of Health Data

- Accidental Deaths

Solution #2 Crime

- Add a heat map for the types of crime

- Violent Crime is Worse than Property Crime

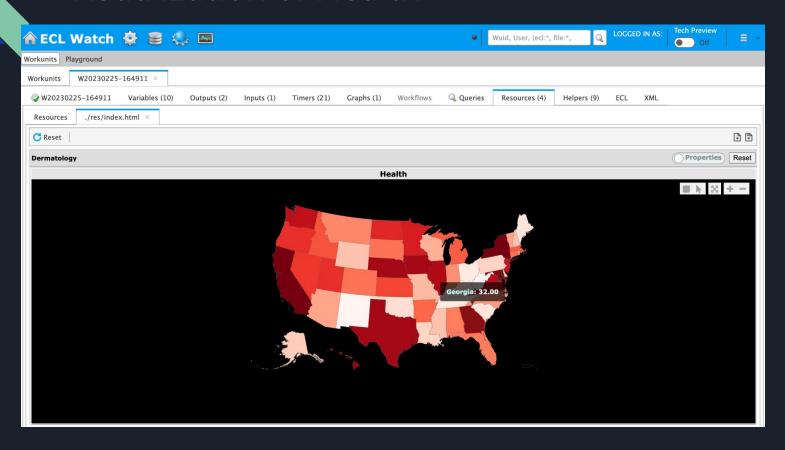
```
IMPORT Spring2023 Hackathon.FindOurParadise.Datasets.File NewHealth, STD;
AccidentalDeaths := File NewHealth.File;
Min Year := MIN(AccidentalDeaths, (INTEGER)Year)-1;
Max Year := MAX(AccidentalDeaths, (INTEGER)Year);
OUTPUT(Min Year, NAMED('MIN'));
OUTPUT(Max Year, NAMED('MAX'));
DeathRates := RECORD
    AccidentalDeaths.State,
    AccidentalDeaths.Year,
    REAL weighted Rate := (INTEGER)(AccidentalDeaths.Rate) * (((INTEGER)AccidentalDeaths.Year - Min Year) / (Max Year - Min Year))
DeathTab := TABLE(AccidentalDeaths, DeathRates);
OUTPUT(SAMPLE(DeathTab, 5), NAMED('NewHealth'));
// AggregateHealth := RECORD
      TotalAccidentRate := SUM(GROUP, DeathTab.weighted Rate),
// AggHealthTab := TABLE(DeathTab, AggregateHealth, State);
AggHealthTab := TABLE(DeathTab, {
                                 State,
                                 AggAccidentRate := (INTEGER)SUM(GROUP, weighted Rate)
                                State):
```

```
IMPORT $, STD;
UnemployementRate := $.File Unemployement.File;
UnemploymentRec := RECORD
    STRING2 State := UnemployementRate.state abrv,
    UnemployementRate.rate diff
END:
UnemploymentTab := TABLE(UnemployementRate, UnemploymentRec);
AggUnemployementRate := TABLE(UnemploymentTab,
                            State,
                            Agg rate diff := SUM(GROUP, (DECIMAL2 1) rate diff)
                        }, State);
OUTPUT(AggUnemployementRate, NAMED('UnemRate'));
OUTPUT(AggUnemployementRate,,'~FYP::Main::Hacks::TeamFriendshipEmploymentData',NAMED('NewEmploymentData'),OVERWRITE);
```

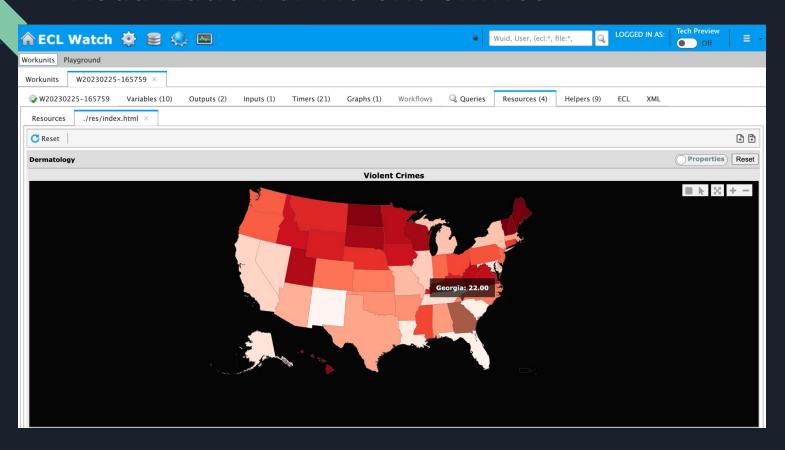
Accidental Death Scoring

Unemployment Scoring

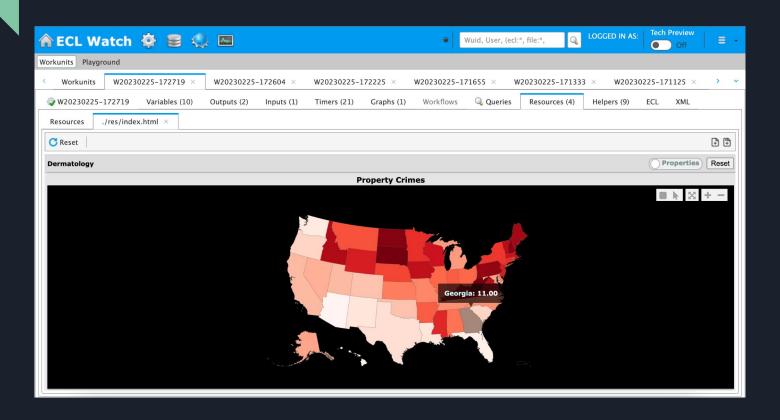
Visualization of Health



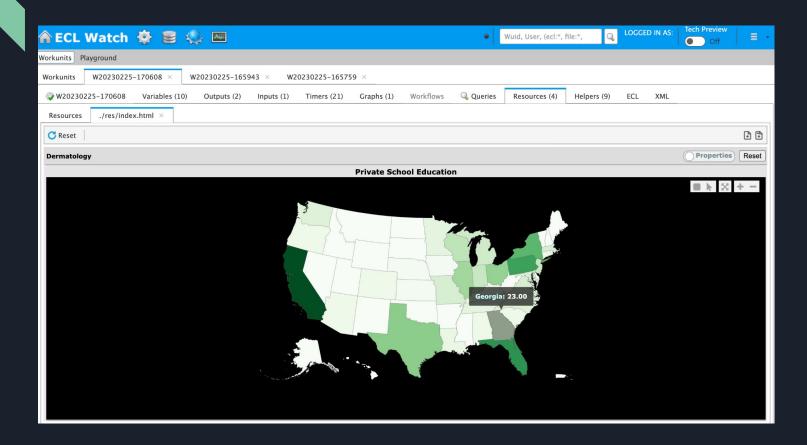
Visualization of Violent Crimes



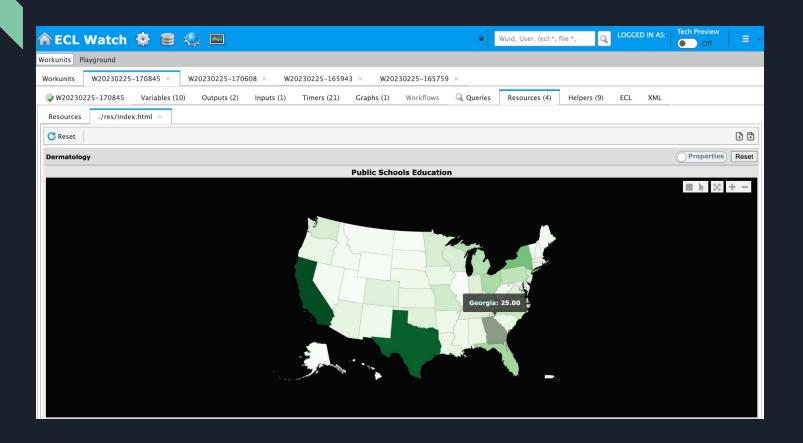
Visualization of Property Crimes



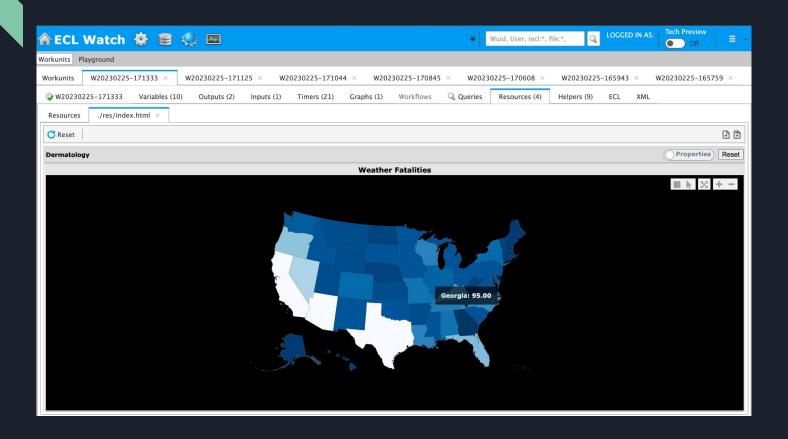
Visualization of Private Schools



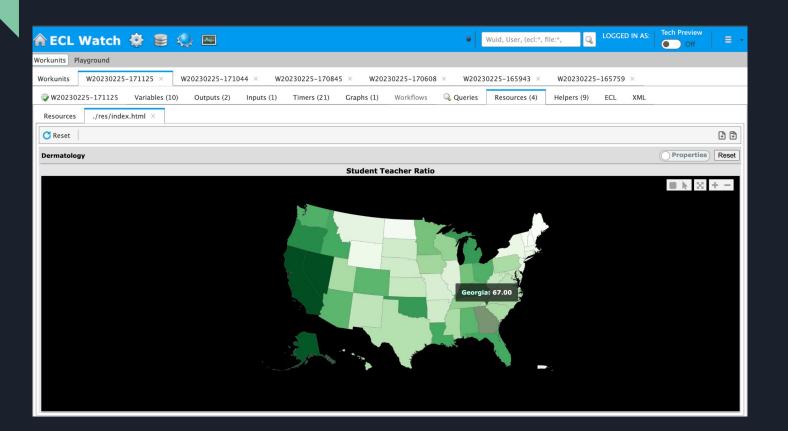
Visualization of Public Schools



Visualization of Weather Fatalities



Visualization of Student to Teacher ratio



Our Paradise

_i_want_it_all?	default
accident_deaths?	true
private_school_count?	default
property_crimes?	true
public_school_count?	default
student_teacher_ratio?	default
unemployment_rate?	default
violent_crimes?	default
weather_events?	default
weather_fatalities?	true
weather_injuries?	default

	paradisescore	state	statename
1	100	ND	North Dakota
2	92	IA	Iowa
3	90	NE	New England
4	90	VA	Virginia
5	90	MA	Massachusetts
6	85	NH	New Hampshire
7	82	ID	Idaho
8	82	VT	Vermont
9	80	SD	South Dakota
10	80	CT	Connecticut