#### **Results**

# Q1 – Title image

# **Automobile Sales Statistics Dashboard**

#### Q2 - Drop Down Lists

#### Select Report Type:



### Q3 - Output Divisions

```
58
59
             html.Div(
60
61
                     html.Label(
62
                         "Select Report Type:",
                         className="text-base font-semibold text-gray-900",
63
                         htmlFor="input-report",
64
65
66
67
                         "Which report would you like to display, yearly or recession?",
                         className="text-sm text-gray-500",
68
69
70
                     dcc.Dropdown(
71
                         options=[
                             {"label": "Yearly Statistics", "value": "Yearly"},
72
73
                             {"label": "Recession Period Statistics", "value": "Recession"},
74
75
                         value="Yearly",
                         id="input-report",
76
77
78
                 className="mt-4",
79
80
81
             html.Div(
82
83
                     html.Label(
84
                         className="text-base font-semibold text-gray-900",
                         htmlFor="input-year",
86
87
88
                     html.P(
89
                         "Which year would you like to display for the yearly report?",
                         className="text-sm text-gray-500",
90
91
92
                         sorted(df.Year.unique()), value=2005, id="input-year", disabled=True
93
94
```

```
The state of the s
```

#### Q4 - Callbacks

```
@callback(Output("input-year", "disabled"), Input("input-report", "value"))
112
113
      def disable_year(report_value):
114
           if report_value == "Recession":
115
              return True
116
          else:
117
               return False
118
119
120
      @callback(
121
122
               Output(component_id="plot-1", component_property="figure"),
123
               Output(component_id="plot-2", component_property="figure"),
124
               Output(component_id="plot-3", component_property="figure"),
               Output(component_id="plot-4", component_property="figure"),
125
126
           1,
127
128
               Input(component_id="input-report", component_property="value"),
               Input(component_id="input-year", component_property="value"),
129
130
131
132
      def display_graphs(report_value, entered_year):
133
           if report_value == "Recession":
134
              return recession_graphs()
135
          else:
136
              return year_graphs(entered_year)
137
```

## Q5 - Recession Report graphs

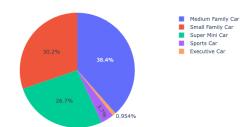
Average Automobile Sales by Year during Recession Periods



Average Automobile Sales by Vehicle Type during Recession Periods



Total Advertising Expenditure by Vehicle Type during Recession Periods

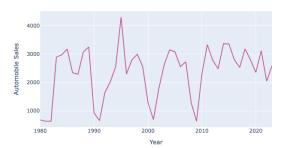


Automobile Sales by Vehicle Type Per Unemployment Rate during Recession P



# Q6 – Yearly Report graphs

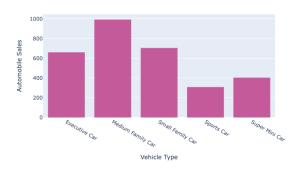
Yearly Average Automobile Sales



Total Automobile Sales per Month in 2005



Average Monthly Automobile Sales by Vehicle Type in 2005



Total Advertising Expenditure by Vehicle Type in 2005

