

[+ Introduction](#)[+ Getting Started](#)[+ Lab 1: Create an App from a Spreadsheet](#)[- Lab 2: Improve the Faceted Search](#)[Introduction](#)[Task 1: Enhancing the Safe Facet](#)[Task 2: Collapsing Facets](#)[Task 3: Filtering Facets](#)[Summary](#)[Acknowledgements](#)[+ Lab 3: Improve the Report and Form](#)[+ Lab 4: Add a Map Region and Install PWA](#)[+ Need Help?](#)

## Improving the Faceted Search

### Introduction

In this lab, you will get a first-hand experience with enhancing the application by improving the faceted search page for better clarity and improved usability. The search page includes facets on the left which can readily be used to limit the data shown in the report on the right.

If you review the **NYC Highschools Search** page, you can check and uncheck various facets. When you check a facet, the counts on all of the remaining facets will be updated to show the number of records that meet the new criteria.

Estimated Time: 10 minutes

Watch the video below for a quick walk-through of the lab.



[Collapse All Tasks](#)

### — Task 1: Enhancing the Safe Facet

Reviewing the facets, you will notice that **Safe** is down the page and you can choose multiple range values from a checkbox group.

- From the runtime application, go to the search page by clicking **NYC Highschools Search**. Assuming that you ran this app from the APEX App Builder, a Developer Toolbar is displayed at the bottom of the screen. *Note - End users who log directly into the app will not see this toolbar.*

In the Developer Toolbar click **Page 3**.

<input type="checkbox"/> 50 - 80 (115)	BRONX	Pelham Lab High School	Schuylerville-Throgs Neck	Science & Math	Ed. Opt.	466	71
<input type="checkbox"/> 80 - 84 (87)	The						
<input type="checkbox"/> 84 - 90 (112)						684	92

Alternatively, you can also navigate back to the APEX App Builder tab in your browser manually by selecting the appropriate browser tab or window. Once in the App Builder click **3 - NYC Highschools Search**.

The screenshot shows the APEX App Builder interface. The top navigation bar includes tabs for APEX, App Builder (which is selected), SQL Workshop, Team Development, and Gallery. A search bar and developer toolbar are also present. The main area displays the application structure for "Application 116902 - NYC Highschools". It shows five main components: Run Application, Supporting Objects, Shared Components, Utilities, and Export / Import. Below these are several small icons representing different page types. The "3 - NYC Highschools Search" page is highlighted with a red box in the navigation pane, indicating it is the current active page.

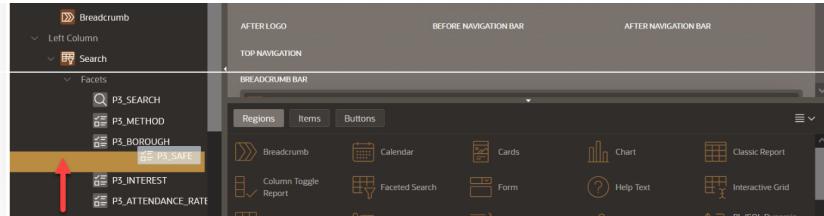
You should now be in the Page Designer. Page Designer is where you will spend the majority of your time improving your application. There are three panes within Page Designer.

- The left pane initially displays the Rendering tree, with a list of page components.
- The middle pane displays the Layout, a representation of the page, and Gallery, from which you can drag and drop new components into the Layout.
- The right pane is the Property Editor, where you can change attributes for the selected component.

- Safety of a Highschool is a very important search criteria while selecting a High School, so you want to reorder the facets such that **Safe** is between **Borough** and **Interest**.

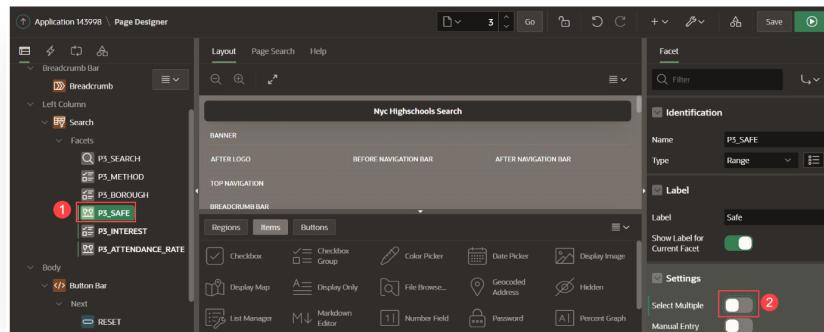
In the Rendering tree (left pane), under **Search**, within **Facets**, click and hold **P3\_SAFE** and drag it up until it is under **P3\_BOROUGH** then release the mouse.

The screenshot shows the Page Designer in the APEX App Builder. The top navigation bar includes tabs for APEX, App Builder (selected), SQL Workshop, Team Development, and Gallery. The main area shows the "Page 3: NYC Highschools Search" page. On the left, the "Rendering tree" pane lists components like Pre-Rendering, Components, and Breadcrumb Bar. The "Facets" section is visible, showing a list of facets. The "P3\_SAFE" facet is highlighted with a red box and is being dragged upwards within the list, positioned between "P3\_BOROUGH" and "P3\_INTEREST".



3. Currently the **Safe** facet is a checkbox group with range values. However, it is unlikely that users will want to select multiple safety percentage value, so you will convert it into a radio range group.

Continuing with **P3\_SAFE** selected, within the Property Editor (right pane), under **Settings**, toggle the **Select Multiple** button such that multiple values cannot be selected.



4. At the top right of the page click **Save and Run Page** to save the changes made to the facets and review the app.

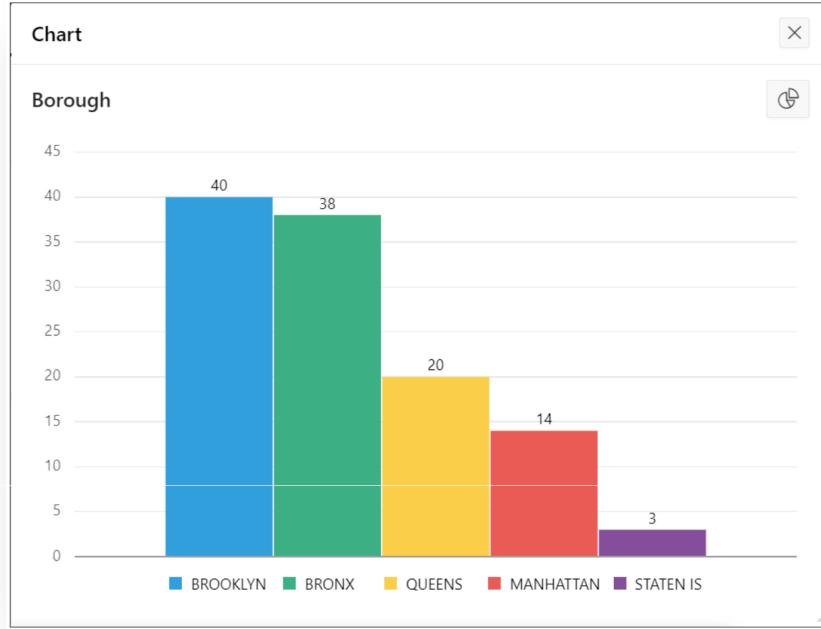


5. In the runtime environment, click one of the **Safe** ranges. Review how the counts on the other facets are updated based on your selection. Also notice how you can still select one of the other **Safe** ranges or click **Clear**, within the **Safe** facet, to clear your selection and again show all the counts for all the safety ranges.

Borough	School Name	Neighborhood	Interest	Method	Total Students	Graduation Rate	Attendance Rate
BRONX	Crotona International High School	Belmont	Humanities & Interdisciplinary	Screened: Language	335	63	83
BRONX	Pelham Lab High School	Schuyerville-Throgs Neck	Science & Math	Ed. Opt.	466	71	83
QUEENS	Eagle Academy for Young Men III	St. Albans	Humanities & Interdisciplinary	Ed. Opt.	531	93	91
BRONX	Eagle Academy for Young Men	Clementon-Bathgate	Humanities & Interdisciplinary	For Continuing 8th Graders	511	74	87

**Note:** As an optional step, you can follow the same steps in **STEP 1** to customize the **Attendance Rate** facet.

6. You can view each of the facets and their respective counts as a chart. To view the chart, click on the context menu next to the **Borough** facet and select **Show Chart**. A chart dialog window is displayed with the Borough names on the X-axis and the count on the Y-axis.

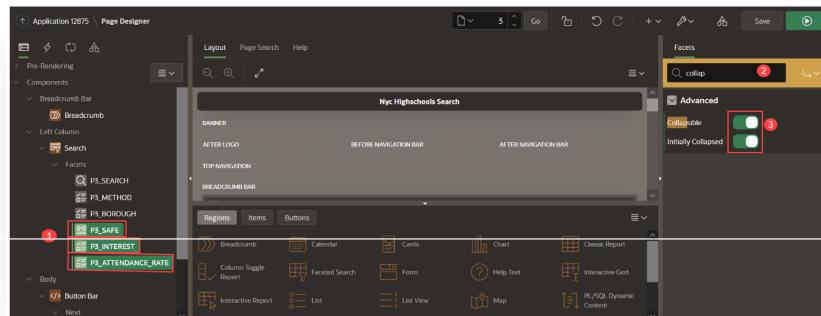


### — Task 2: Collapsing Facets

1. You may have noticed that the facets go off the bottom of the page. Therefore, it would be preferable to collapse the last three facets, making it easier to see all available facets.

Navigate back to the development environment (APEX App Builder) by using the edit link in the Developer toolbar, or manually navigating to the appropriate browser tab.

In the Rendering tree (left pane), under **Search**, within **Facets**, click **P3\_SAFE**, hold down the **Shift** key and then click **P3\_ATTENDANCE\_RATE**, such that three facets are selected. In the Property Editor (right pane), within the filter at the top, enter **collap**, so that Collapsible is displayed under Advanced. When you toggle the switch for **Collapsible, Initially Collapsible** property appears. For Advanced > Initially Collapsed, change the switch to selected.



*Note - Rather than entering a filter you can also scroll down the properties until you find the correct attribute to update.*

2. Click **Save and Run Page** to see the improved search page.

Total Row Count 427							
Borough	School Name	Neighborhood	Interest	Method	Total Students	Graduation Rate	Attendance Rate
BRONX	South Bronx Preparatory: A College Board School	Mott Haven - Port Morris	Humanities & Interdisciplinary	For Continuing Bilingual Graders	659	96	92
BROOKLYN	Brooklyn Prep Academy	Windsor Terrace	Humanities & Interdisciplinary	Screened	622	98	95
BROOKLYN	Rachel Carson High School for Coastal Studies	West Brighton	Environmental Science	Ed. Opt.	639	67	86
MANHATTAN	Heritage School: The High	East Harlem - South	Health Professions	Ed. Opt.	294	73	88

### — Task 3: Filtering Facets

i. Some facets may have multiple values to choose from and becomes difficult for the end user to scroll and select the values. APEX 22.1 introduces a new filter feature for facets which provides a search bar to search and filter facet values.

Click the context menu (three dots) next to the facet name **Method**. Select **Filter**.

**NYC Highschools Report**

**Method**

- Ed. Opt. (241)
- Screened (76)
- Open (42)
- Screened: Language (27)
- Audition (17)
- Test (8)
- Transfer (7)

[Show All](#)

**Borough**

Borough	School Name	Neighborhood	Interest
BROOKLYN	South Bronx Preparatory: A College Board School	Mott Haven-Port Morris	Humanities Interdisciplinary
BROOKLYN	Brooklyn College Academy	Windsor Terrace	Humanities Interdisciplinary
BROOKLYN	Rachel Carson High School for Coastal Studies	West Brighton	Environmental Science
MANHATTAN	Heritage School, The	East Harlem South	Health Professions

2. A search filter is displayed below the facet name. Type **Transf** in the text box and all the facet values that contain the substring will be displayed. You can then select the checkbox for **Transfer** to be filtered in the report.

**NYC Highschools**

[Home](#) [Dashboard](#) [NYC Highschools Search](#) [NYC Highschools Report](#)

**NYC Highschools Search**

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**Total Row Count 7**

Method Transfer X [Reset](#)

Borough	School Name	Neighborhood	Interest	Method	Total Students	Graduation Rate	Attendance Rate
BROOKLYN	Metropolitan Diploma Plus High School	Brownsville	Humanities & Interdisciplinary	Transfer	217	0	66
BRONX	New York City Secondary School	E. Concourse-Concourse Village	Humanities & Interdisciplinary	Transfer	234	0	65
MANHATTAN	Independence High School	Clinton	Humanities & Interdisciplinary	Transfer	334	0	62
MANHATTAN	High School of Excellence and	Inwood	Humanities & Interdisciplinary	Transfer	201	0	68

### — Summary

You now know how to enhance a faceted search page and modify the properties on a page using the Page Designer.

### — Acknowledgements

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- **Last Updated By/Date** - Apoorva Srinivas, Senior Product Manager, June 2022