



**ORACLE APEX BLOGS** — By Saravanan Ananth

# How to validate duplicate records and highlight row with custom error notification in an Interactive grid using Javascript in oracle APEX

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 [May 25, 2024](#)

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## 1.Overview

This document explains about how to validate duplicate records and highlight row with custom error notification in an Interactive grid in oracle APEX.

## 2.Technologies and Tools Used

The following technology has been used to Validate IG duplicate records and highlight in Oracle APEX,

- Oracle Apex
- SQL
- Javascript
- Css

## 3.Use Case

If a requirement arises to validate IG records to check duplicates between the records across different validation in the GRID view. This approach will help

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Using this approach, we can validate and restrict wrong data population into the source table with in client side, which will help us to avoid validation request during server side processing.

#### **4.Steps with Screenshot**

Steps to be followed,

**Step 1:** Create an editable Interactive grid region with the DB table source and provide static id(IGVAL) for the region.

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Region Attributes Printing

Filter

☒ Identification

Title  
IG\_Highlight\_Validation

Type  
Interactive Grid

☒ Source

Location  
Local Database

Type  
Table / View

Table Owner  
Parsing Schema

IG\_Highlight\_Validation

Columns

☒ APEX\$ROW\_SELECTOR

☒ APEX\$ROW\_ACTION

☒ ID

☒ LOC

☒ LOC\_ID

Region Attributes Printing

Filter

☒ Master Detail

Master Region  
- Select -

☒ Advanced

Static ID  
IGVAL

Custom Attributes

Region Display Selector  
☐

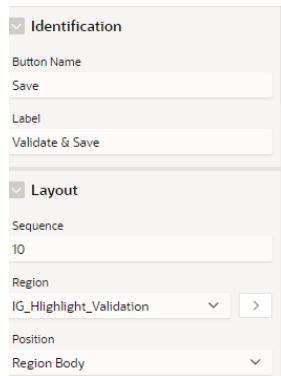
Exclude Title from Translation  
☐

**ID is the primary key column in the IG, which is used to uniquely identify table row for DOM manipulation.**

**Step 2:** Create button element(save) with region body as position and label it as Validate&Save.

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Note: We can create button element into the toolbar using Javascript initialization(attributes section) on the region template using options and define behaviour through actions method.

**Step 3:** Create dynamic action for the button element.

Event: click

Selection type: button

Items:Save

True:

**Action:**

Execute Javascript:

**Code: callValidation();**

**Page Function and global variable declaration:**

```
function callValidation() {
```

```
    var igstaticid = 'IGVAL';
```

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```

var grid = widget.interactiveGrid('getViews', 'grid');

var model = grid.model;

var errMsg = [];

var getCSS = [];

var row_seq = 0;

apex.message.clearErrors();

model.forEach(function (outer_record) {

    row_seq += 1;

    var inner_loop = 0;

    model.forEach(function (inner_record) {

        inner_loop += 1;

        if (

            model.getValue(outer_record, 'LOC') == model.getValue(inner_record,
'LOC') &&

            model.getValue(outer_record, 'LOC_ID') ==
model.getValue(inner_record, 'LOC_ID')

            && inner_loop != row_seq

        ) {

```

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```

        } else {
            model.getValue(outer_record, 'LOC_ID'),

```

```

    if (!errMsg.includes(errorMessage)) {

        errMsg.push(errorMessage);

    }

    getCSS.push(model.getRecordId(outer_record));

    return false;

}

});

});

getCSS.forEach(function (elem) {

    var rowElement = grid.view$.find("table > tbody > tr[data-
id='"+elem+"'"]");

    console.log(rowElement);

    if(rowElement){

        rowElement.addClass('highclass');

    }

});

if (errMsg.length === 0) {

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} else {

```

```
errMsg.forEach(function (emssg) {  
  
    apex.message.showErrors([ {  
  
        type: "error",  
  
        location: "page",  
  
        message: emssg,  
  
        unsafe: false  
  
    }]);  
  
});  
  
}  
  
};
```

### **Page CSS Inline:**

```
.highclass{  
  
background-color:#800000;  
  
color: white;}
```

Above code will get all the records from the grid view and validate the records through the nested loops, then highlight and through custom error message.

Custom css can be directly applied using jQuery .css() method. Here I created as css block (highclass) and dynamically added this class for the duplicate and

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Output:

ING MANAGEMENT SYSTEM

14:17:32 PM, Saturday, 2024

2 errors have occurred

- Duplicate record found - TORONTO 1
- Duplicate record found - Chennai 4

### Grid Highlight

Q

Search: All Text Columns

Go

Actions

Validate & Save

Add Row

Reset

<input type="checkbox"/>	<input type="checkbox"/>	Loc	Loc Id
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TORONTO	1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TORONTO	1
<input type="checkbox"/>	<input type="checkbox"/>	Dallas	2
<input type="checkbox"/>	<input type="checkbox"/>	Trichy	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chennai	4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chennai	4

1 rows selected

Total 6

Happy Coding!!!...



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