

# **KOMPUTASI AWAN**

## **JOBSHEET 7**

### **SOFTWARE AS A SERVICE (SaaS)**



Oleh:

Rajendra Rakha Arya Prabaswara (1941720080)

TI – 2H

**PROGRAM STUDI D4 TEKNIK INFORMATIKA  
JURUSAN TEKNOLOGI INFORMASI  
POLITEKNIK NEGERI MALANG  
2021**

## Praktikum

Oracle Visual Builder adalah alat pengembangan untuk membuat aplikasi web dan seluler dengan menyeret dan menjatuhkan komponen pada halaman. Komponen ini bergantung pada objek bisnis untuk datanya. Objek bisnis hanyalah sumber daya -- seperti pesanan pembelian atau faktur -- yang memiliki bidang untuk menyimpan data untuk aplikasi Anda. Objek bisnis mirip dengan tabel database, karena menyediakan struktur untuk data Anda; pada kenyataannya, objek bisnis disimpan dalam database. Aplikasi web Anda mengakses objek bisnis melalui titik akhir REST mereka. Pada praktikum ini kita akan mencoba membuat sebuah bisnis object seperti pada gambar dibawah ini:

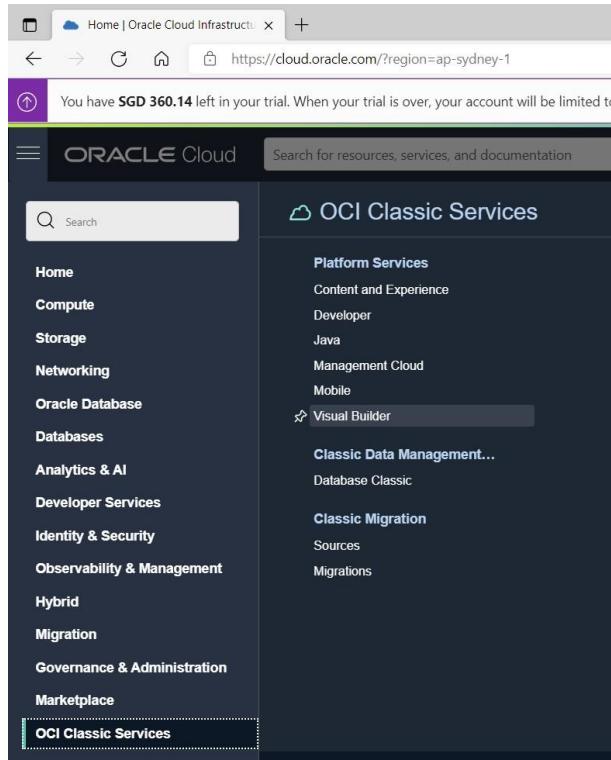
Setelah kita memiliki objek bisnis, kita akan menggunakaninya untuk membangun aplikasi Sumber Daya Manusia (Human Resource Application) yang sangat sederhana di mana setiap karyawan menjadi bagian dari sebuah departemen, dan setiap departemen memiliki lokasi. Hasil akhir dari project ini pengguna bisa menambahkan nama karyawan dan departemen mereka ke database, dan mengubah data jika diperlukan.

Alat dan bahan:

- Visual builder
- Browser

### 1. Membuat Aplikasi (Create Web Application)

Login OCI -> Pilih OCI Classic Service -> Create Instance



## OCI Classic Service -> Create Instace

The screenshot shows the Oracle Cloud Infrastructure Visual Builder Instances page. At the top right, there is a 'Create Instance' button with a red arrow pointing towards it. The page has tabs for 'Instances' and 'Activity'. Below the tabs, it says 'You don't have any instances. After meeting the prerequisites, use this button to create an instance.' There is also a link to 'Need help creating the instance?' which includes options like 'Watch a video' and 'Step through a tutorial'. The status 'As of Oct 14, 2021 1:57:38 AM UTC' is shown at the bottom.

Isi nama instace, nama, deskripsi dari instance, Region dan tak

The screenshot shows the 'Create Visual Builder Instance' step of the wizard. It has two tabs: 'Details' and 'Special Instructions'. In the 'Details' tab, there are fields for 'Instance Name' (Tugas7), 'Description' (Tugas7), 'Notification Email' (1941720036@student.polinema...), 'Region' (ap-sydney-1), and 'Tags' (putri). The 'Special Instructions' tab has a note about selecting a special tag if received from Oracle. A 'Next >' button is visible on the right.

The screenshot shows the 'Create Visual Builder Instance Confirmation' step of the wizard. It displays the summary of the instance details entered in the previous step. The 'Service' section shows the same information: Instance Name (Tugas7), Description (Tugas7), Notification Email (1941720036@student.polinema...), License Type (Cloud License), Region (ap-sydney-1), and Tags (putri). A 'Create' button is visible on the right.

Hasil instance yang telah dibuat:

**Overview**

**Instance Overview**

As of Oct 14, 2021 2:39:11 AM UTC

**Status:** Creating service ...    **Version:** 21.3.3.210805.1400-41912  
**Active:** Yes    **Feature Set:** Integration and Process

Optional. Select only if you received a special tag from Oracle for creating this instance:  
**Special Tag:** ics\_pcs

**Visual Builder Edition:** Enterprise Edition  
**License:** Cloud License

**In-Progress Operation Messages**

<b>Create Service In Progress</b>	<b>Start Time:</b> Oct 14, 2021 2:38:51 AM UTC
Instance Name: TugasPutri	
Operation: Create Service	
Operation Status: Running	

Lihat pada pojok kiri, terdapat simbol menu (klik simbol tersebut dan akan muncul menu beriku), Kemudian pilih Open Visual Builder Home Page

**Visual Builder / VisualBuilder374338**

**Overview**

**Instance Overview**

As of Oct 14, 2021 4:16:07 AM UTC

**Status:** Ready    **Version:** 21.3.3.210805.1400-41912  
**Active:** Yes    **Feature Set:** Integration and Process

Optional. Select only if you received a special tag from Oracle for creating this instance:  
**Service Identifier:** 613499532

**Special Tag:** ics\_pcs    **Visual Builder Edition:** Enterprise Edition

**IDCS Application:** VBINST\_VisualBuilder374338  
**License:** Cloud License

**Open Visual Builder Home Page**

- Start
- Stop
- Add Tags
- View Activity

Tunggu beberapa saat, kemudian jika berhasil akan muncul halaman berikut. Klik New Application

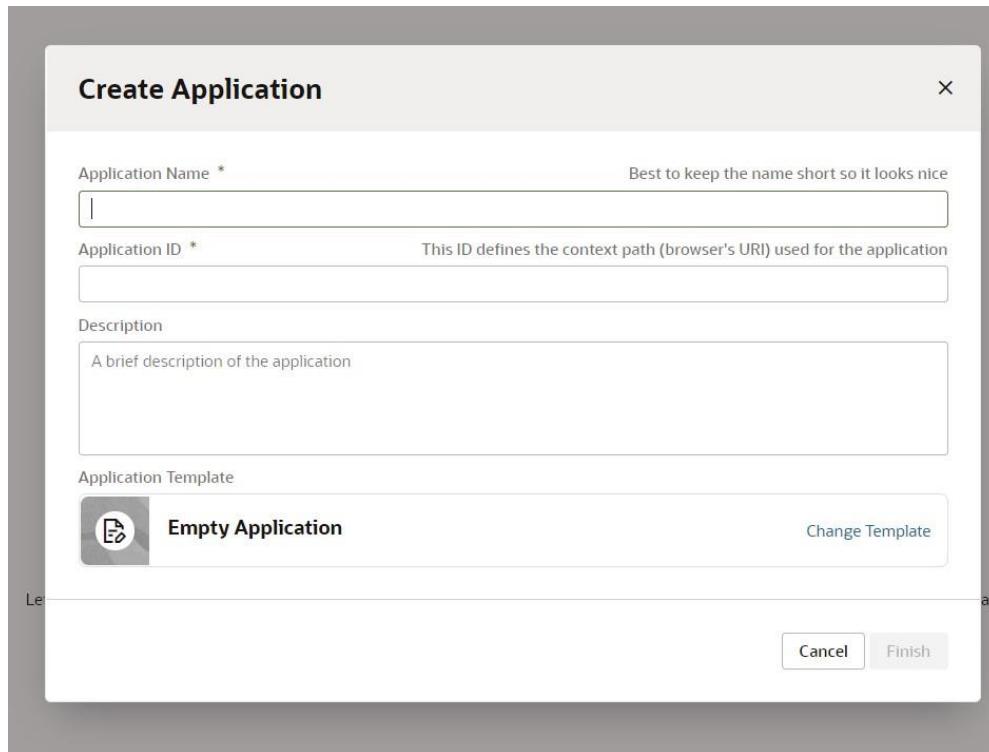
You don't have any applications yet.

Let us walk you through the process of creating your first app step-by-step, or just dive in and start building! We'll help you along the way.

**+ New Application**    **+ Import Application**

Show me how

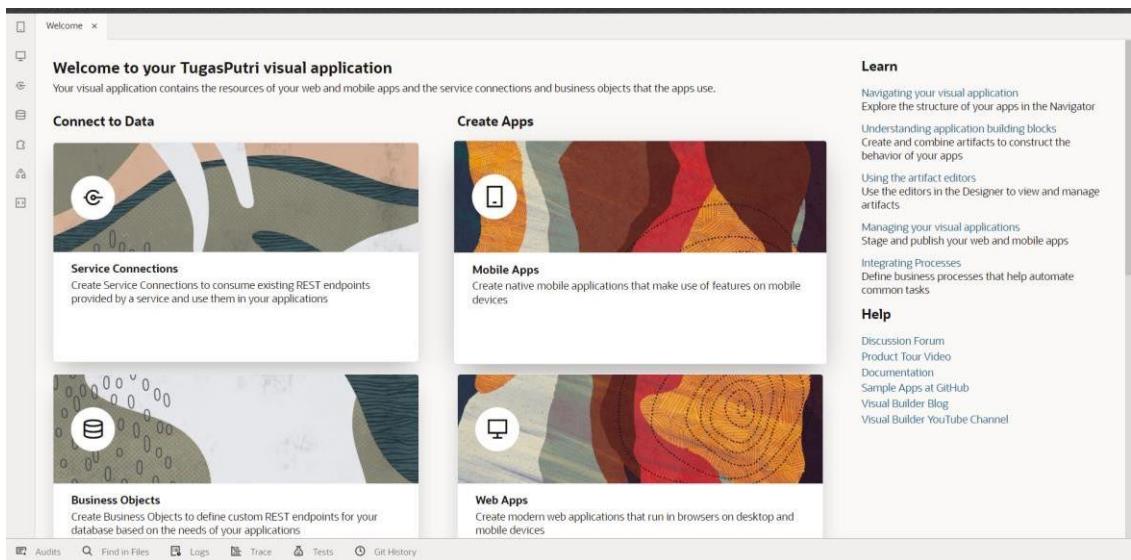
Isi informasi tentang aplikasi yang akan dibuat :



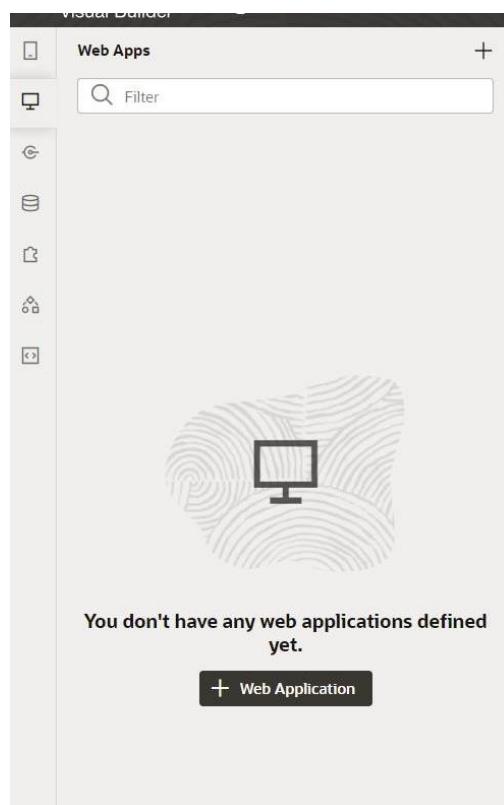
Jika kita berhasil membuat akan muncul nama aplikasi yang akan kita buat seperti gabaridibawah ini:

A screenshot of the Oracle Visual Builder 'Visual Applications' list page. The browser address bar shows the URL https://visualbuilder374338-putrinurifa.builder.ocp.oraclecloud.com/i/builder/. The page has a dark header bar with the Oracle logo and a navigation menu. The main content area is titled 'Visual Applications'. It features a table with columns: Name, Status, Origin, Version, and Recent activity. There is one row visible in the table: 'TugasPutri' (Status: Development, Origin: Visual Builder, Version: 1.0, Recent activity: 3 minutes ago). At the top of the table are filters for 'Filter by Name', 'Status' (set to All), and 'Administered by me' (unchecked). At the bottom right of the table are 'Import' and 'New' buttons.

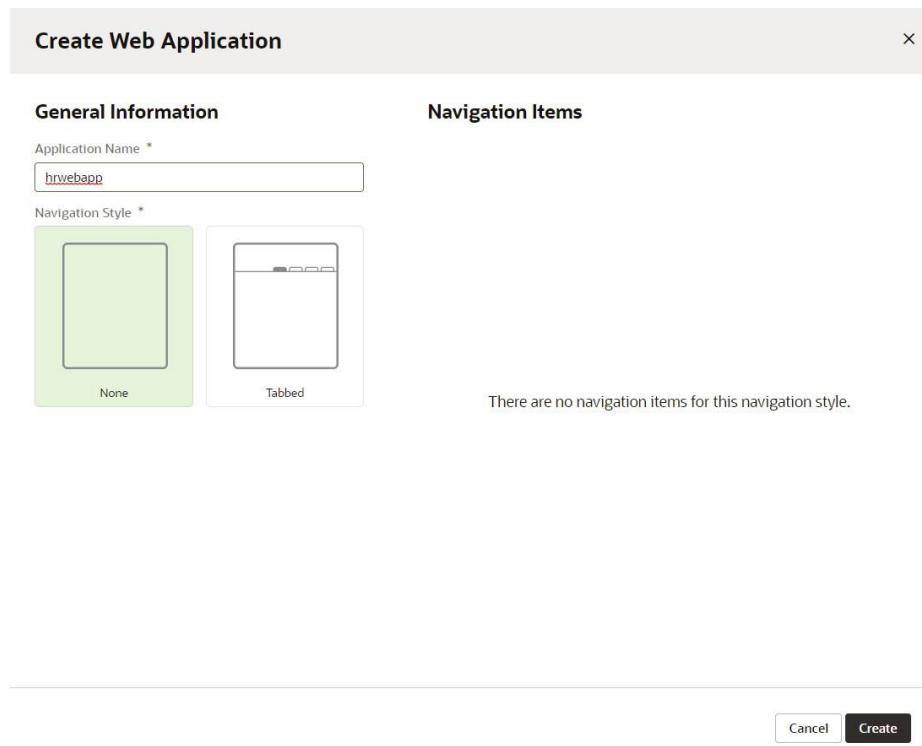
Klik nama aplikasi yang telah kita buat (seperti pada gambar sebelumnya), maka akan muncul halaman beriku:



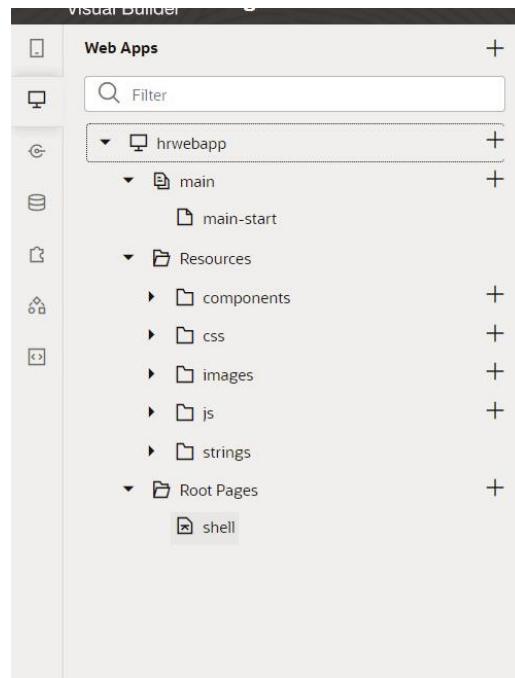
Pada sisi kiri adalah menu dari (kotak berwarna merah) visual builder dari aplikasi yang akan kita buat, pilih ikon web kemudian akan muncul menu berikut :



2. Pada dialog box Create Application, isi nama web dengan nama “hrwebapp” dan untuk navigation style biarkan none.



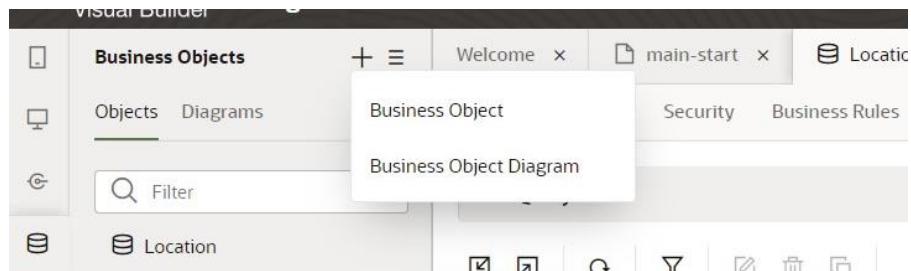
3. Expand hrwebapp, kita akan melihat struktur struktur dari aplikasi web, kurang lebih seperti gambar dibawah ini:



## **Import Location Business dari file**

## **Department Business Object**

1. Pada panel Business Objects, klik tanda +, lalu pilih Business Object



2. Pada new Business Object dialog Box, Pada field label isi dengan “Department”.

## New Business Object

Label \*

Name \*

3. Klik Fields tab kemudian klik + Field.
  4. Pada pop-up box, masukan:
    - Label: Name
    - Field Name: name (automatically populated)
    - Type: String
    - String icon (selected by default)
    - Click Create Field.

Label \*

Field Name \*

Type

String

A
#
█
█
█
█
█
█
█

Cancel
Create Field

5. Pada property inspector, centang Required di bawah label constrain.
  6. Klik Fields tab kemudian klik + Field

## Label: Location

Field Name: location (automatically populated)

Type: Reference Reference icon

## Referenced Business Object: Location

(Reference field seperti foreign key pada database table)

Display Field: Name (automatically populated)

Label *	<input type="text" value="Location"/>
Field Name *	<input type="text" value="location"/>
Type	Reference
<span>A</span> <span>#</span> <span>□</span> <span>📅</span> <span>🕒</span> <span>⟳</span> <span>✉</span> <span>📞</span> <span>🔗</span> <span>%</span> Referenced Business Object *	
<input type="text" value="Location"/> ▾	
Display Field <span>?</span>	
<input type="text" value="Name"/> ▾	

## **Employee Business Object**

Pada langkah ini, kita akan membuat objek bisnis terakhir yang kita butuhkan, objek Karyawan, yang berisi nama karyawan dan data pengenal. Dalam hal ini, Karyawan memiliki bidang Referensi yang merujuk ke Departemen.

1. Pada panel Bisnis object, klik tanda +, lalu pilih Bisnis Objek.
  2. Pada new Business Object dialog Box, Pada field label isi dengan “Employee”.

## New Business Object

Label \*

Name \*

3. Klik Fields tab kemudian klik + Field.
  4. Pada pop-up box, masukan:

- Label: Name
- Field Name: name (automatically populated)
- Type: String String icon (selected by default)
- Click Create Field.

Label \*

Field Name \*

Type	String
<input checked="" type="radio"/> A   #   □   ☰   ☱   ☲   ☳   ☴   ☵   ☶   ☷   ☸   ☹   ☺   ☻   ☼   ☽   ☾   ☿   ☿	
<input type="button" value="Cancel"/> <input type="button" value="Create Field"/>	

5. Pada property inspector, centang Required di bawah label constrain.

6. Pilih + Fields, kemudian masukan atau isi:

- Label: Department
- Field Name: department (automatically populated)
- Type: Reference Reference
- Referenced Business Object: Department
- Display Field: Name (automatically populated) Klik Create Field.

Label \*

Field Name \*

Type	Reference
<input checked="" type="radio"/> A   #   □   ☰   ☱   ☲   ☳   ☴   ☵   ☶   ☷   ☸   ☹   ☺   ☻   ☼   ☽   ☾   ☿   ☿	
Referenced Business Object *	
<input type="button" value="Department"/>	
Display Field <small>(?)</small>	
<input type="button" value="Name"/>	
<input type="button" value="Cancel"/> <input type="button" value="Create Field"/>	

7. Pilih + Fields, kemudian masukan atau isi:

- Label: Hire Date

- Field Name: hireDate (automatically populated) • Type: Date Date Klik Create Field.

Label \*

Field Name \*

Type	Date
A # ☐ 🗓️ ⏰ ↴ ⏲️ 📩 🎬 %	

Cancel
Create Field

8. Pilih + Fields, kemudian masukan atau isi: Label: Email  
Field Name: email (automatically populated)  
Type: Email Email  
Klik Create Field, Di editor properti, Format diatur ke Email.

Label \*

Field Name \*

Type	Email
A # ☐ 🗓️ 🗓️ ⏰ ↴ 📩 🎬 %	

Cancel
Create Field

Format

Email

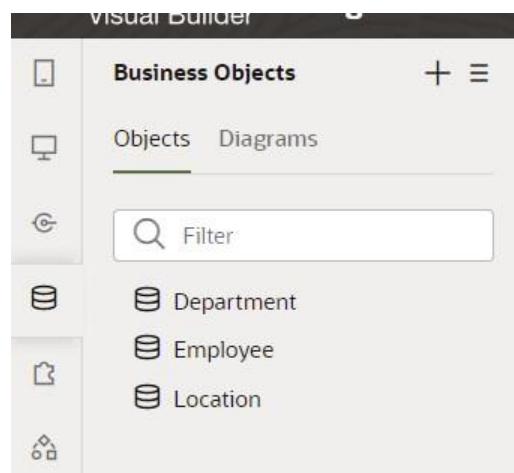
9. Klik tab Endpoints dan lihat API resource dan REST end point yang dibuat untuk Business Object Employee. Karena Object Employee merujuk ke Department, kita dapat melihat end point untuk kedua objek tersebut jika Anda memperluas node

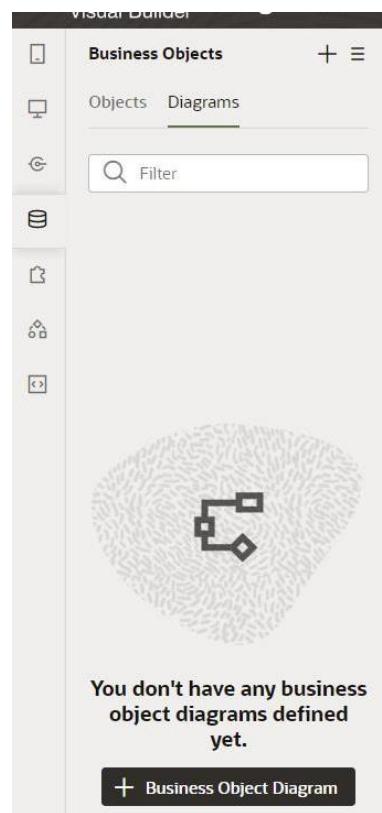
departmentObject. Perluas node Resource API untuk melihat URL untuk mengakses metadata dan data untuk objek bisnis, lalu perkecil lagi.

The screenshot shows the Visual Builder interface with the 'Endpoints' tab selected. Under the 'Employee' endpoint, two resource paths are listed: '/Employee' and '/Employee/{Employee\_Id}'. Each path has four operations: GET, POST, PATCH, and DELETE, each with a corresponding method name and description.

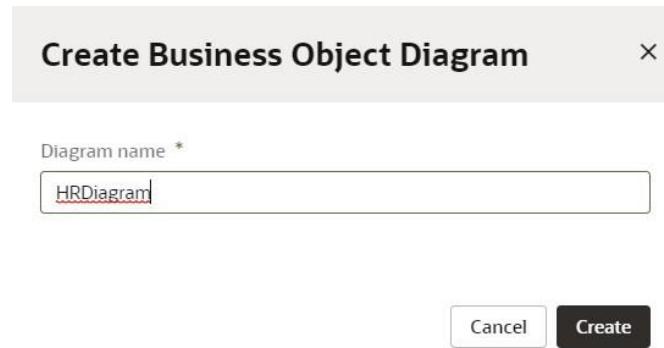
Path	Method	Description	Method Name
/Employee	GET	Get Many	getall_Employee
	POST	Create	create_Employee
/Employee/{Employee_Id}	GET	Get One	get_Employee
	PATCH	Update	update_Employee
	DELETE	Delete	delete_Employee

10. Di panel Objek Bisnis Navigator, klik tab Diagram, lalu klik tombol + business object diagram.

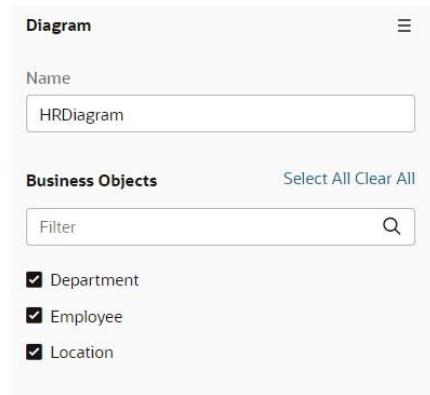




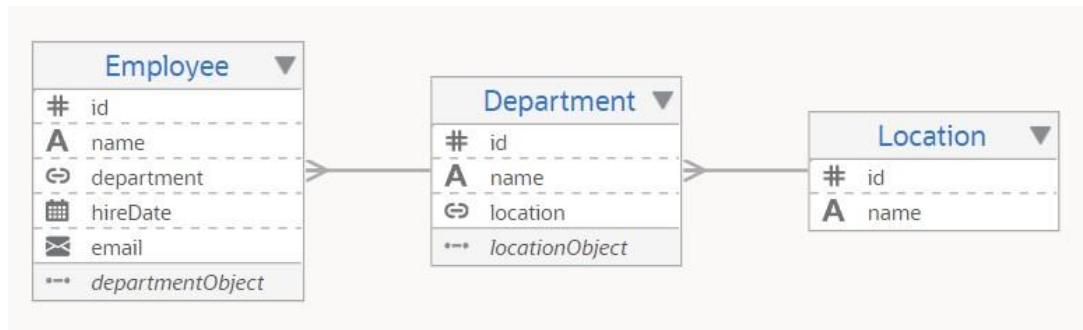
11. Pada Create Business Object Diagram dialog box, isi field Diagram name dengan “HRDiagram”.



12. Pada properti inspector, pilih semua

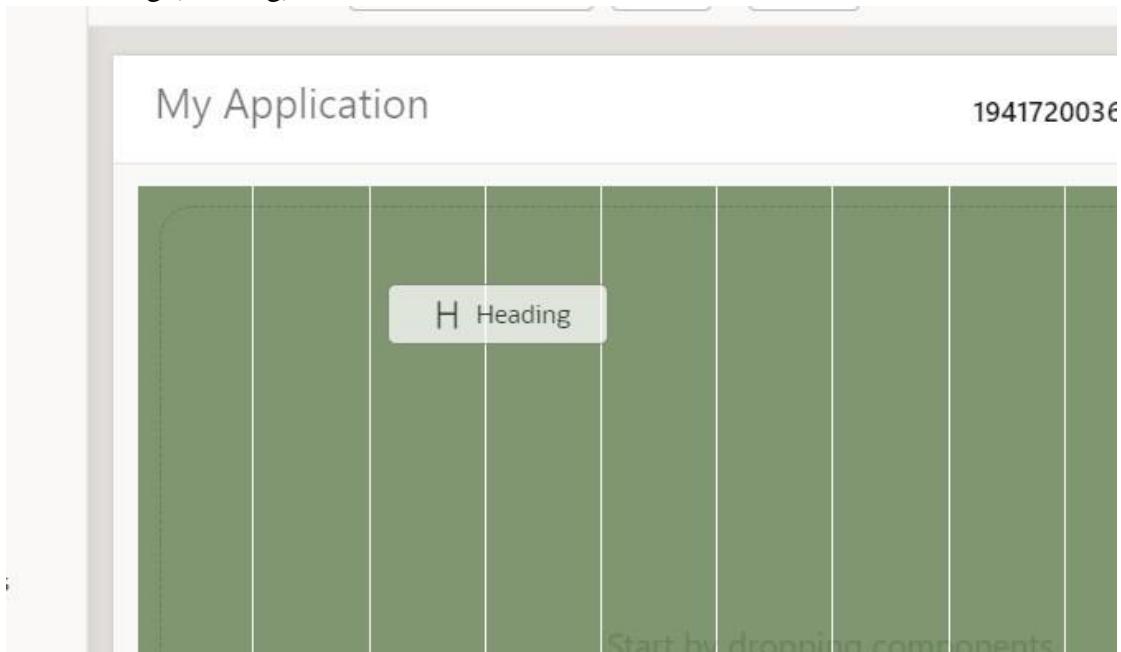


Kurang lebih diagram yang dihasilkan seperti ini:

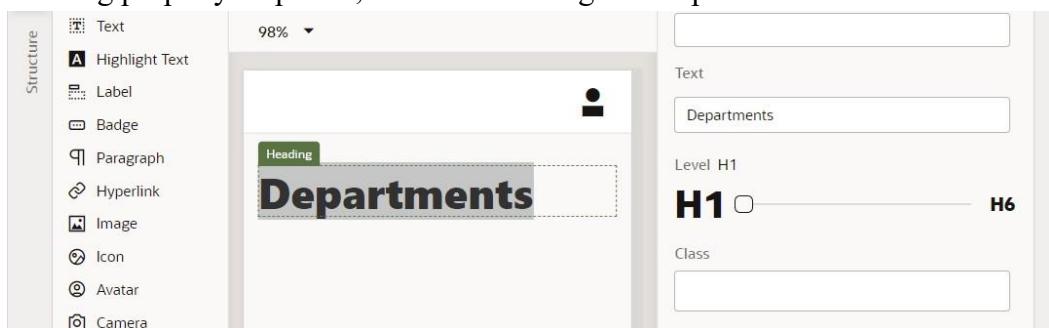


## main-start Page untuk Display Departments

1. Pilih Web Applications pada tab navigator.
2. Expand main nodes
3. Perhatikan pada komponen palette, tempatkan Heading komponen pada bagian common kemudian drag (heading) ke halaman.



4. Pada heading property inspector, isi text field dengan “ Departments”



5. Pada components palette, scroll down sampai menemukan collection, pilih table, kemudian drop di bawah heading (departement).
6. Klik Add Data di Property Inspector untuk membuka Add Data Quick Stats

The screenshot shows the Mendix Studio interface. At the top, there are navigation icons (Q, Fit to Canvas, Live, Design, Code) and a zoom level of 98%. On the left, a 'Table' component is displayed with a sample grid:

Column1	Column2	Column3	Column4
Sample Value	Sample Value	Sample Value	Sample Value
Sample Value	Sample Value	Sample Value	Sample Value
Sample Value	Sample Value	Sample Value	Sample Value

The 'Table' component has a small icon of a person in the top right corner.

On the right, the 'Table' item is selected in the 'Quick Start' sidebar, which contains the following options:

- Add Data**: Map the table to a data source, so we can populate it with data.
- Add Create Page**: Add a new action and a page with a form for creating a row.
- Add Edit Page**: Add a new action and a page updating the selected record.
- Add Detail Page**: Add a new action and a page with the record details.
- Add Delete Action**: Add a new action deleting the selected record.

7. Pada halaman Quick Start, pilih business object Departemen, lalu klik next.

The screenshot shows the 'Add Data' dialog. At the top, it says 'Add Data' and 'Cancel'. Below that, a step indicator shows '1 Locate Data'.

The main area is titled 'Choose the source of your data' and shows a dropdown menu labeled 'Business Objects'.

Below the dropdown, there are three items:

- Department**: Represented by a database icon.
- Employee**: Represented by a database icon.
- Location**: Represented by a database icon.

8. Pada halaman Bind Data, di bawah item[i], centang id dan nama.

**Add Data**

1 Locate Data    2 Bind Data    3 Define Query

**Endpoint Structure**

Filter

- response
  - items
    - item[i]
      - createdBy
      - creationDate
      - # id
      - lastUpdateDate
      - lastUpdatedBy
      - links
      - location
      - locationObject
        - A name
      - links

**Columns**

# id	Text
A name	Text
Drop a field from Endpoint structure	

Primary Key \*  
id

Include in row data  
Drop a field from Endpoint structure

9. Perluas node locationObject dan item dan pilih name untuk mengaktifkan location name agar muncul di tabel. Klik next.

**Add Data**

1 Locate Data    2 Bind Data    3 Define Query

**Endpoint Structure**

Filter

- response
  - items
    - item[i]
      - href
      - kind
      - # id**
      - lastUpdateDate
      - lastUpdatedBy
      - links
        - item[i]
          - properties
          - rel
      - location
      - locationObject
        - A name

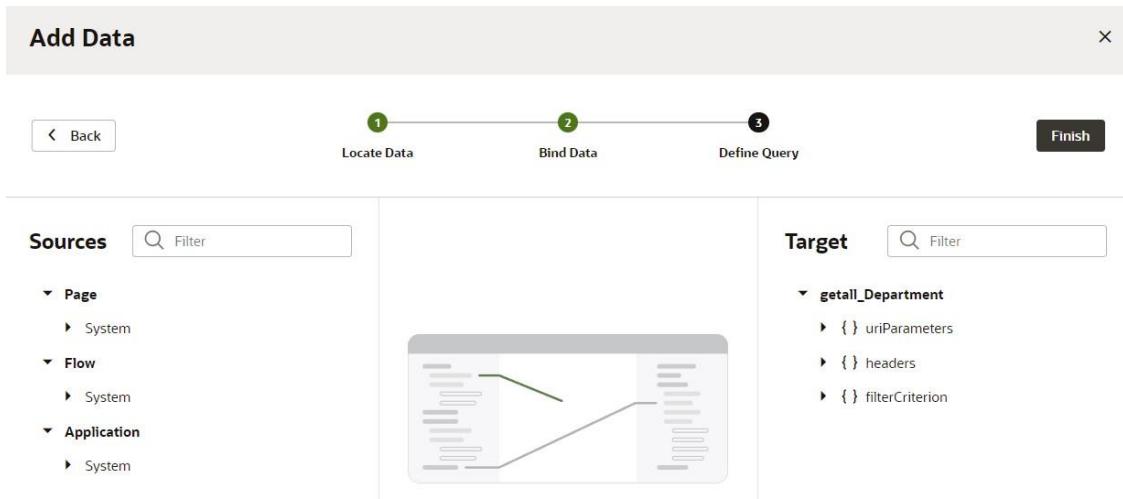
**Columns**

# id	Text
A name	Text
A name	Text
Drop a field from Endpoint structure	

Primary Key \*  
id

Include in row data  
Drop a file

10. Pada halaman Query Page, klik Finish.



11. Untuk membuat kolom nama lokasi deskriptif, klik Data tab. dibawah Table (side menu bar sebelah kanan), klik ikon Detail arrow disebelah Name (locationObject)

Table

General Data Events All Quick Start

① Number of records fetched in Page Designer is limited to 50. Use Run mode to see full set of data.

Data

[[\${page.variables.departmentListSDP2}]]

Table Columns

- Id (id)
- Name (name)
- name (locationObject)

First Selected Row

[{"key":null,"data":null}]

12. Pada kolom, Header text field, ubah “Name” menjadi “Location”. Kemudian klik untuk kembali ke sub menu Data tab.

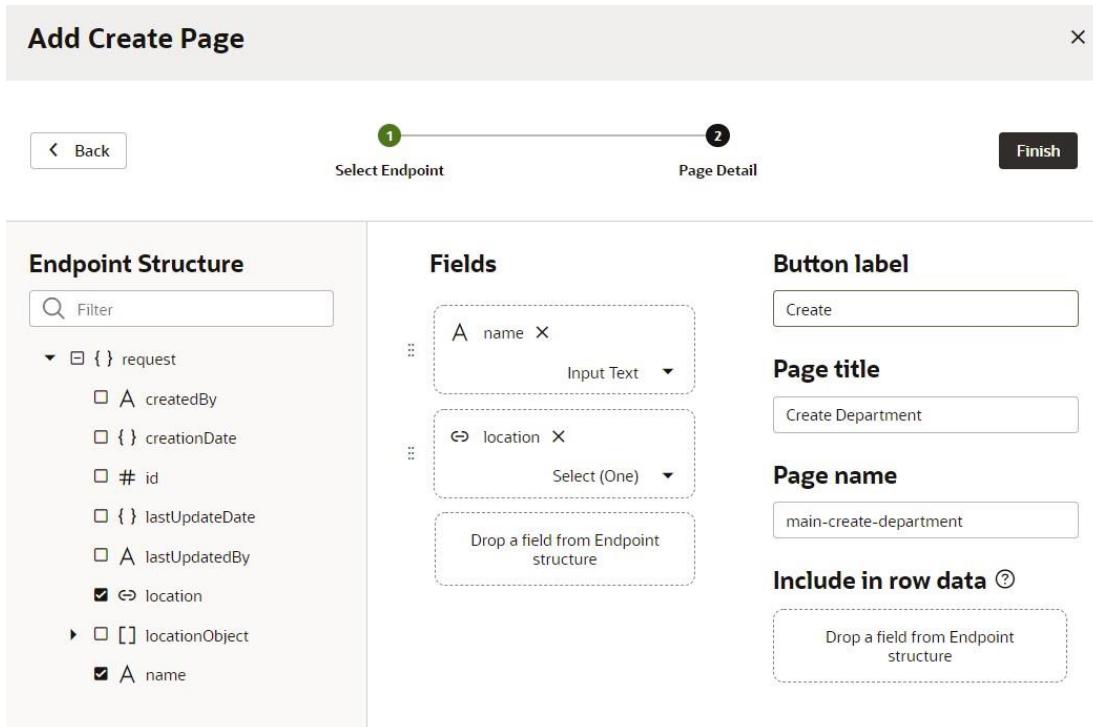
## Page untuk Department Business Object

Halaman create memungkinkan kita untuk mengisi tabel dengan data dengan membuat instance baru dari business object.

1. Klik ta Quick Start (side menu sebelah kanan), kemudian klik Add Create Page.

2. Kemudian pada halaman End point, pilih business object Department, kemudian pilih next.

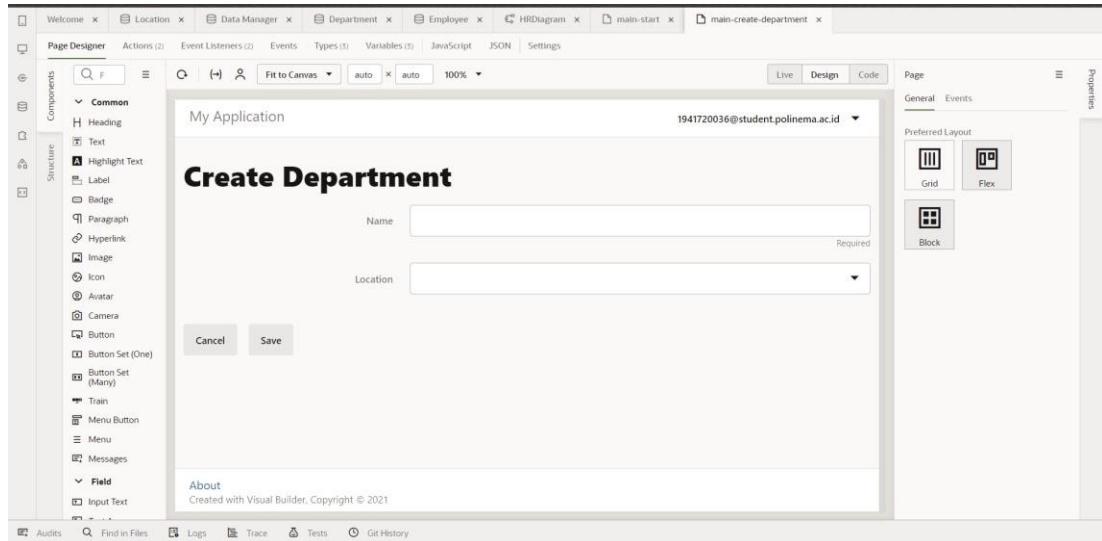
3. Pada halaman detail page, dibawah endpoint structure, pilih dan centang location
4. Isi field Button label dengan “Create”. Kemudian klik tombol Finish,



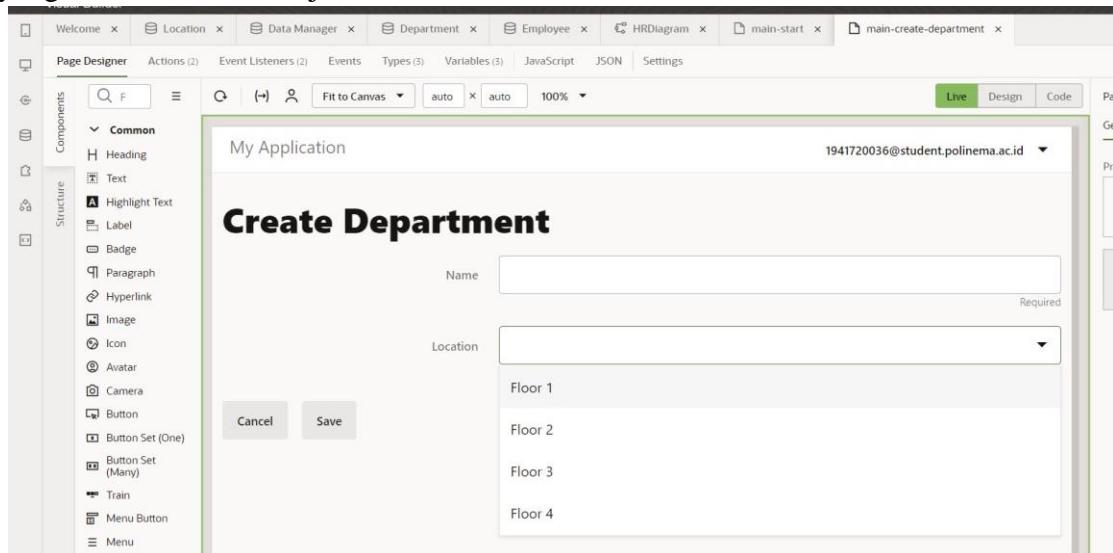
Setelah kita tekan tombol finish, akan muncul komponen tombol Create di atas tabel di halaman awal utama. Klik tab Web Application (side menu sebelah kiri) untuk melihat halaman maincreate-department yang berada dalam satu list main-start.

The screenshot shows the main application interface with the 'Departments' page. The page title is 'Departments'. Below the title is a 'Create' button. A table is displayed with columns 'Id', 'Name', and 'Location'. A message 'No data to display.' is shown. The left sidebar shows the 'Page Designer' tab is active, along with other tabs like 'Actions', 'Event Listeners', 'Events', 'Types', 'Variables', 'JavaScript', 'JSON', and 'Settings'. The right sidebar shows 'Properties' and 'Preview' panels.

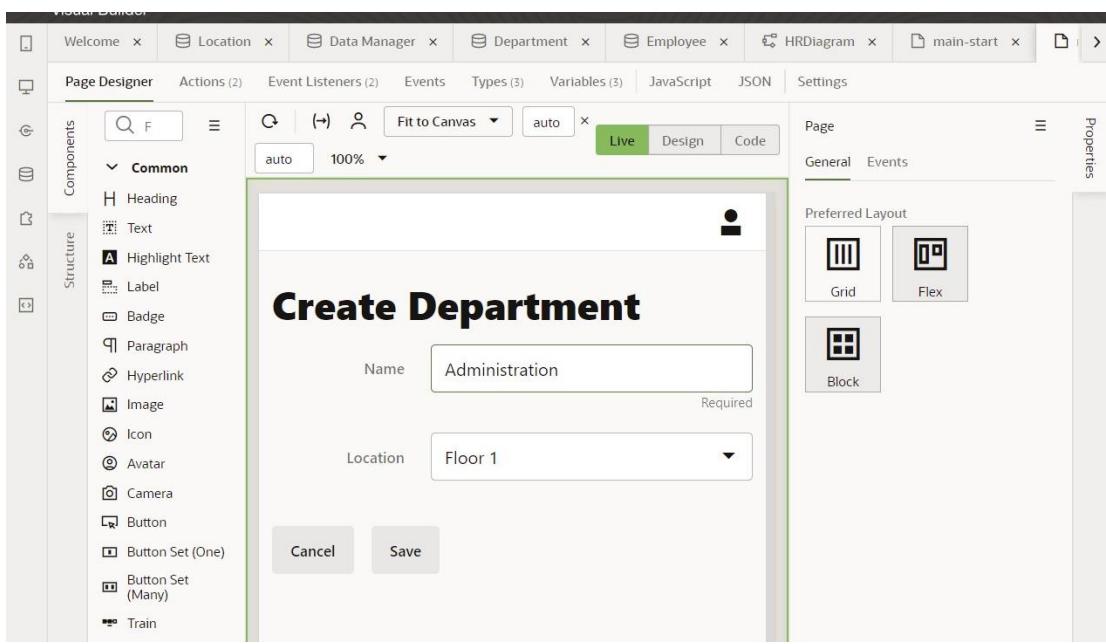
5. Klik main-create-department dan buka Page Designer. Pada halaman tersebut kita bisa melihat ada 2 filed sama seperti langkah ke-4. Selain itu terdapat 2 tombol Cancel dan Save.



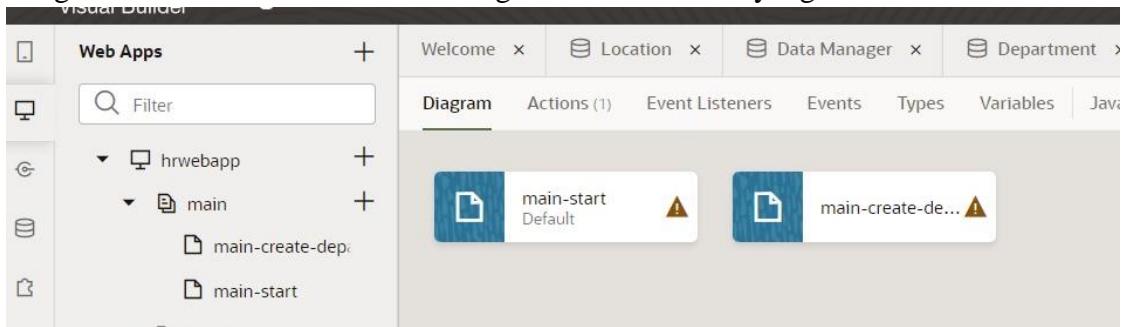
6. Pada halaman Quic Preview klik Live, pada mode ini kita bisa mencoba apakah form yang kita buat sudah berjalan atau tidak.



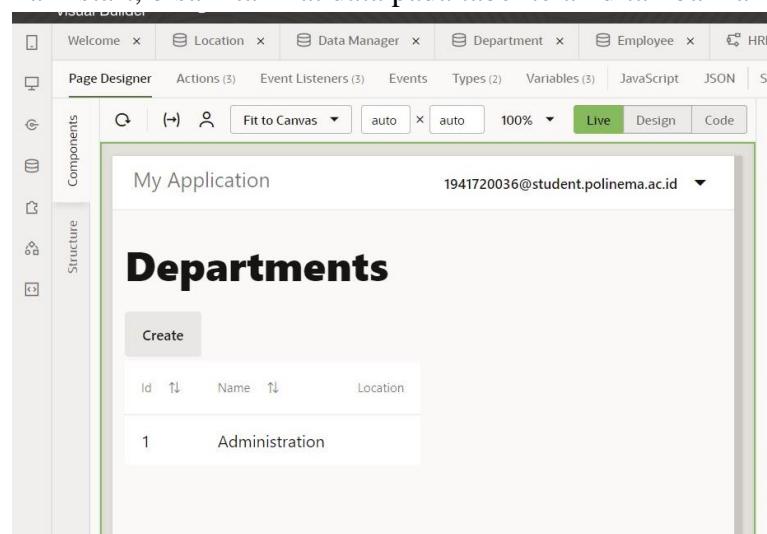
7. Pada field Name isi dengan “Administration” dan untuk lokasi pilih Floor 1.



Kemudian klik Save, maka akan muncul pesan dan Oracle Visual Builder akan mengarahkan kita ke halaman flow diagram dari halaman yang kita buat.



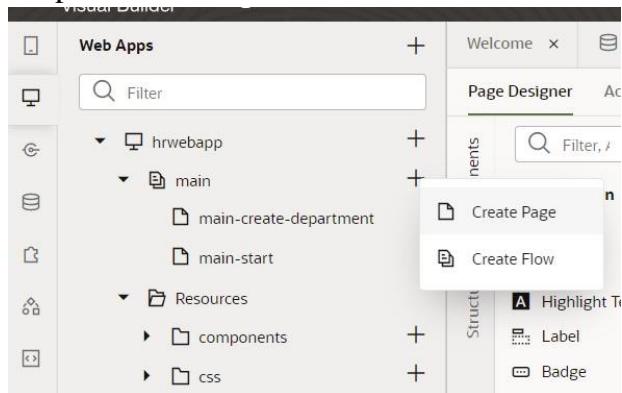
8. Buka, halaman main-start, bisa kita lihat data pada tabel telah ditambahkan.



## Menambah Halaman Display Employees

Pada bagian ini, Kita akan membuat halaman untuk menampilkan Employee, prosesnya mirip dengan pada langkah sebelumnya (membuat halaman departement).

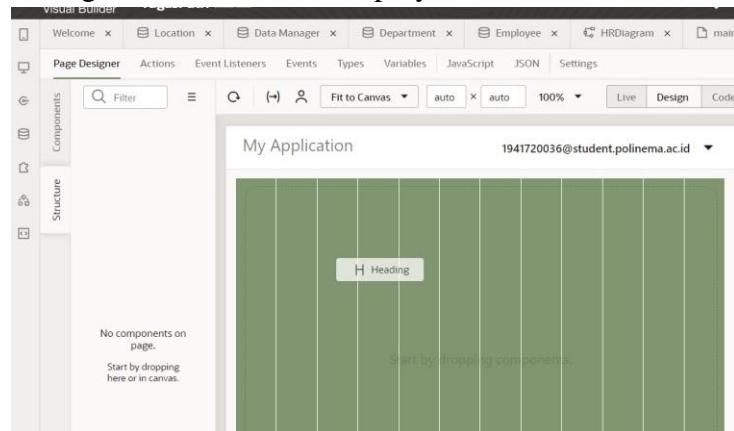
1. Pada main klik simbol + pada main node



2. Pada dialog box Creating Page, masukkan " employees" setelah prefix main-, kemudian klik create.



3. Kemudian tambahkan Heading pada halaman main-employess, dengan cara melakukan drop komponen heading ke halaman main-employess.



4. Ganti filed text pada side menu (sebelah kanan) properties Heading dengan “ Employees”



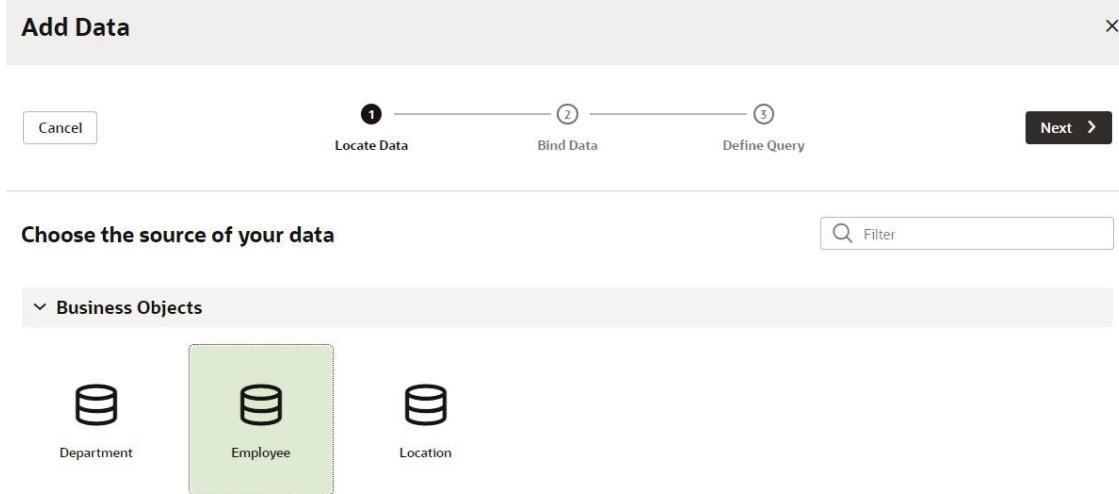
5. Kemudian tambahkan komponen Table pada halaman main-employess.

Column1	Column2	Column3	Column4
Sample Value	Sample Value	Sample Value	Sample Value
Sample Value	Sample Value	Sample Value	Sample Value
Sample Value	Sample Value	Sample Value	Sample Value

6. Klik Add Data.

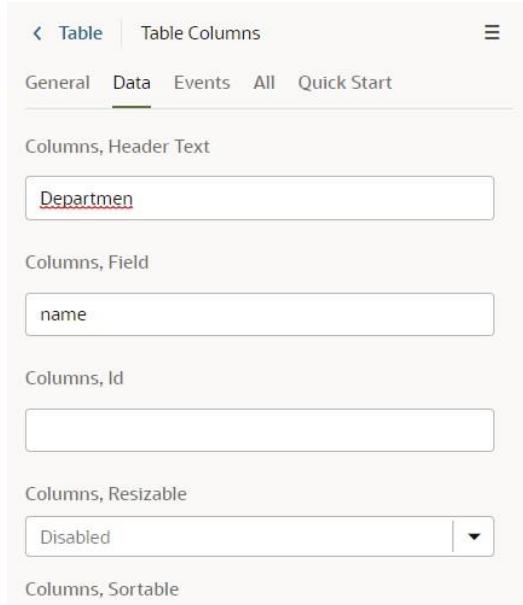
The screenshot shows the Oracle APEX Visual Builder interface. The top navigation bar includes tabs for Welcome, Location, Data Manager, Department, Employee, HRDiagram, main-start, and a user icon. The "Page Designer" tab is active. The left sidebar has sections for Components (Collection, Table, Layout, Tabs with Content, Tab Bar), Structure, and a search bar. The main canvas displays a table with four columns and three rows, labeled "Employees". The Properties panel on the right is open, showing the "Table" section with the "Add Data" button highlighted. Other options include "Add Create Page" and "Add Edit Page".

7. Pada menu pop-up add data, pilih business object Employee, kemudian pilih next.



8. Untuk field data pilih id, name, hireDate, dan Email.

9. Expand departmentObject -> item nodes, pilih name, kemudian pilih next.  
 10. Kita bisa melewati halaman Define Quire, pilih Finish.  
 11. Kembali ke menu properties pilih tab Data, dibawah table column name (paling bawah) klik pada field column header text isi dengan "Department".

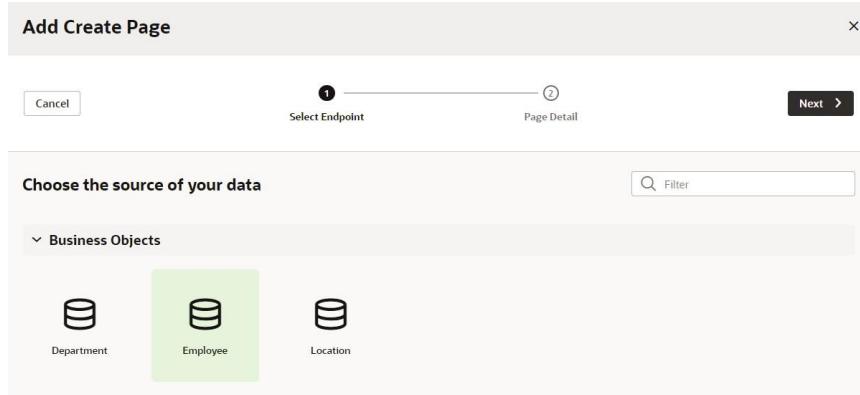


12. Klik untuk kembali ke Data tab.

Halaman Create untuk Employee Business Object 1.

Quick Start, klik Add Create Page.

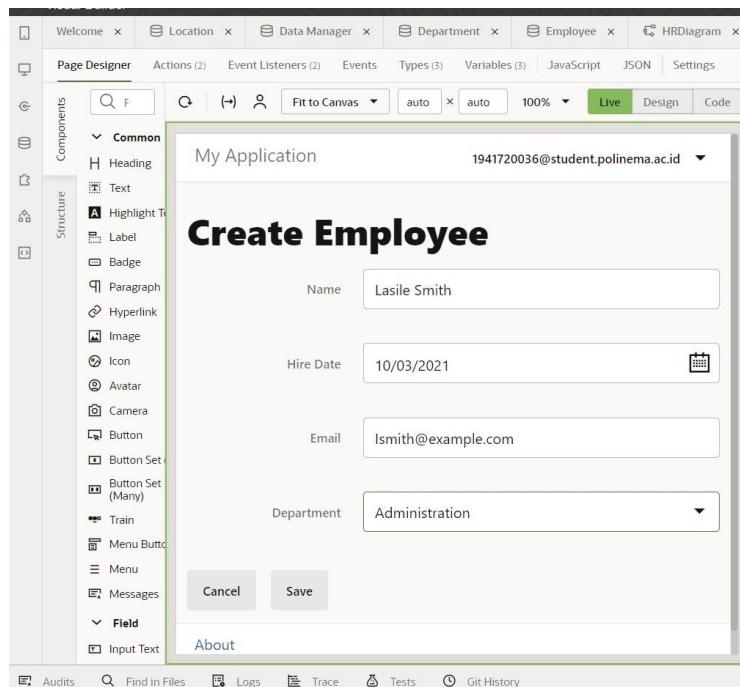
2. Pilih end point Employee.



3. Untuk field pilih hireDate, email, dan department (name otomatis dipilih karena required field).

Endpoint Structure	Fields	Button label
<input type="text" value="Filter"/> <ul style="list-style-type: none"> <li><input type="checkbox"/> request</li> <li><input type="checkbox"/> createdBy</li> <li><input type="checkbox"/> creationDate</li> <li><input checked="" type="checkbox"/> department</li> <li><input type="checkbox"/> departmentObject</li> <li><input checked="" type="checkbox"/> email</li> <li><input checked="" type="checkbox"/> hireDate</li> <li><input type="checkbox"/> id</li> <li><input type="checkbox"/> lastUpdateDate</li> <li><input type="checkbox"/> lastUpdatedBy</li> <li><input checked="" type="checkbox"/> name</li> </ul>	<ul style="list-style-type: none"> <li>A name X Input Text</li> <li>hireDate X Input Date</li> <li>email X Email</li> <li>department X Select (One)</li> </ul> <p>Drop a field from Endpoint structure</p>	Create Create Employee main-create-employee Drop a field from Endpoint structure

4. Pada field Button Lable isi dengan Create, klik finish.  
 5. Klik live, kemudian masukan data name: Lasile Smith, Hire Date: (today), email: lsmith@example.com Departmet: Administration. Kemudian pilih Save. Setelah itu kita akan diarah ke halaman Page Flow. Ketika kita kembali ke halaman main-employess akan tampil data yang telah kita isikan (jika tidak tampil klik tombol reload page ).



The screenshot shows the main 'Employees' page with a 'Create' button. Below it is a table with one row of data:

Id	Department	Hire Date	Email
1	Lasile Smith	2021-10-03	lsmith@example.com

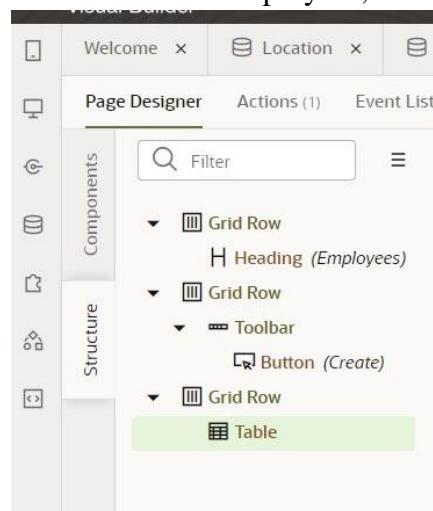
6. Klik Code untuk melihat kode HTML dari halaman main-employess

```

1 <div class="oj-flex">
2   <h1 class="oj-flex-item oj-sm-12 oj-md-12">Employees</h1>
3 </div>
4 <div class="oj-flex">
5   <ojs-toolbar id="oj-toolbar-for-" chroming="solid" class="oj-flex-item oj-sm-12 oj-md-12">
6     <ojs-button on-ojs-action="[$listeners.createEmployeeButtonClicked]">Create</ojs-
7   </ojs-toolbar>
8 </div>
9 <div class="oj-flex">
10  <ojs-table scroll-policy="loadMoreOnScroll" class="oj-flex-item oj-sm-12 oj-md-12" data="[$page.variables.employeeListSDP]" columns='[{"headerText":"Id", "field":"id"}, {"headerText":"Department", "field": "name"}]'>
11  </ojs-table>
12 </div>
13 </div>
14

```

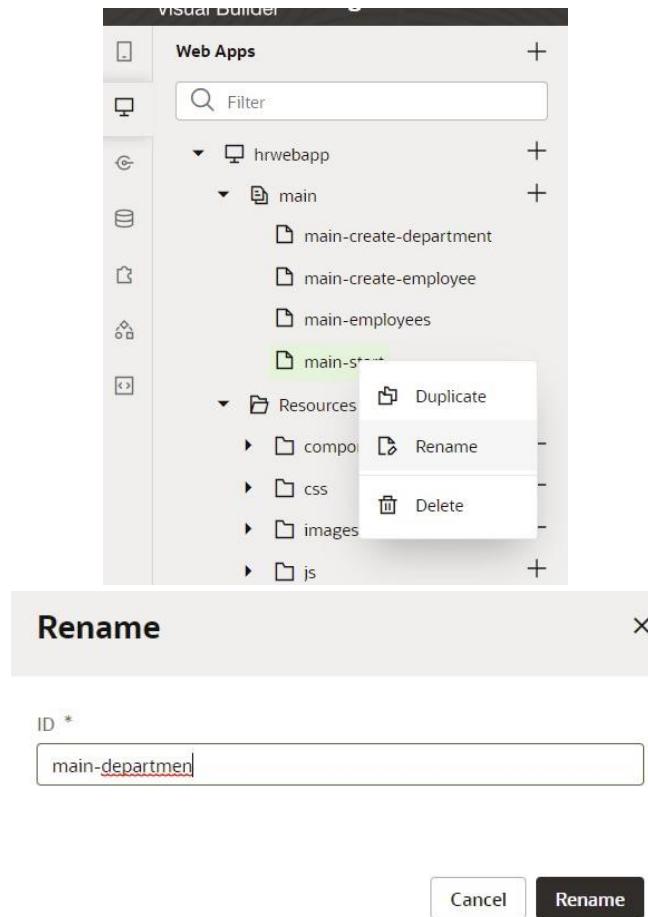
7. Klik Design untuk kembali ke halaman main-employees, kemudian klik Structure



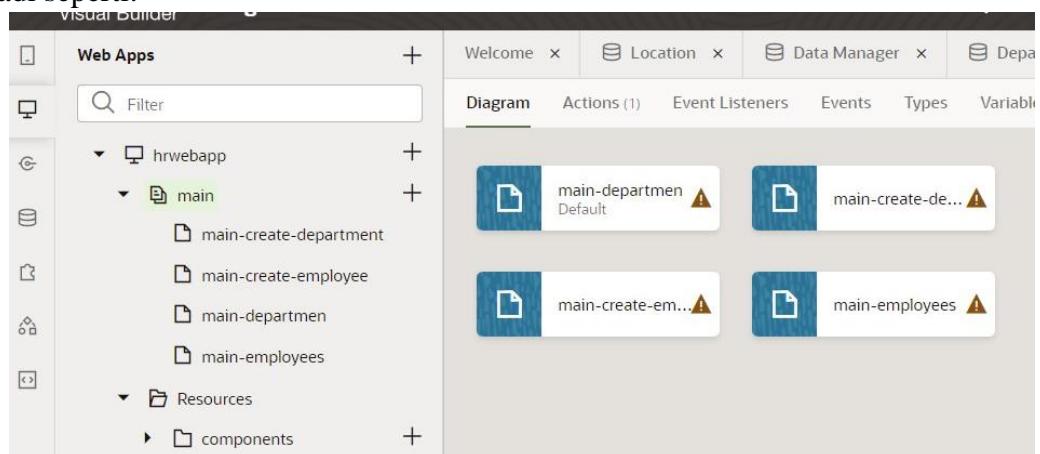
8. Klik Structure lagi untuk menutup structure view.

## Mengganti Nama Halaman main-start

1. Pada Side menu (Web Apps) klik kanan pada main-start, kemudian pilih rename.



2. Pada pop-up menut, pada filed ide Ganti nama start dengan departments, sehingga akan menjadi seperti:



3. Double klik pada main-departments.
4. Klik Source View expand webApps, hrwebapp, flows, dan main nodes. Kemudian klik mainflow.json

```

1  [
2   "id": "main",
3   "description": "Flow main",
4   "defaultPage": "main-departmen",
5   "services": {},
6   "types": {},
7   "variables": {}
8 ]

```

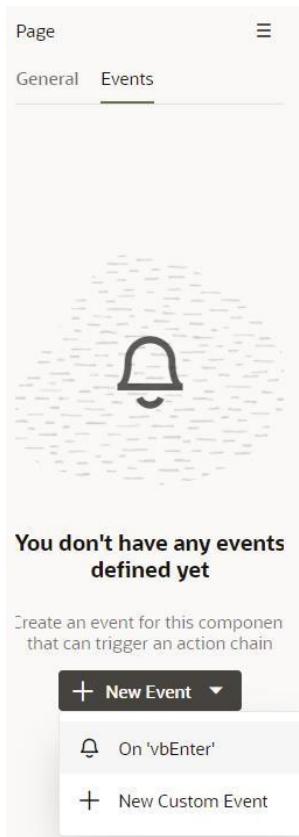
Audits Find in Files Logs Trace Tests Git History Saved 9:45 PM

## Action Chain halaman Departments ke halaman Employess

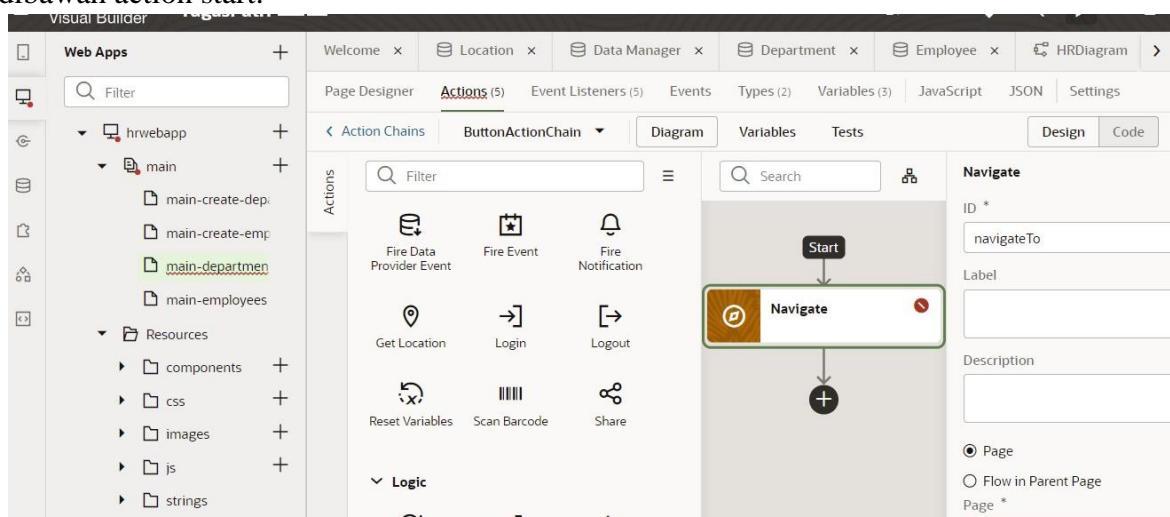
1. Tambahkan Button pada halaman main-departments, beri nama button “Display Employee”.

ID	Name	Location
1	Administration	

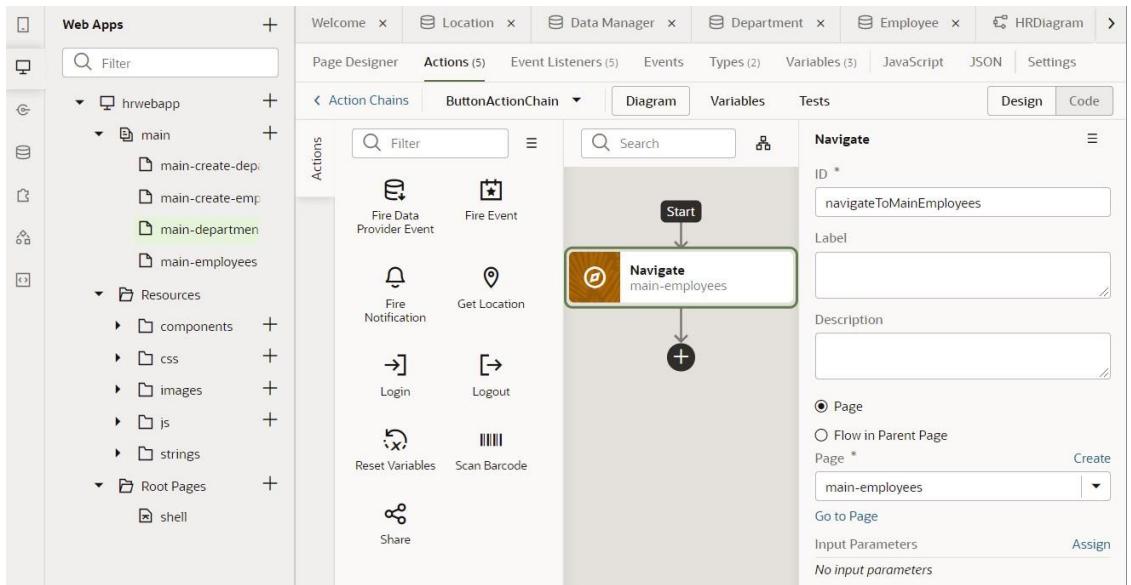
2. klik + New Event (side bar properties), pilih Quick Start: ‘ojAction’, setelah di klik sebuah action chain akan dibuat dengan nama ButtonActionChain, berisi Start action.



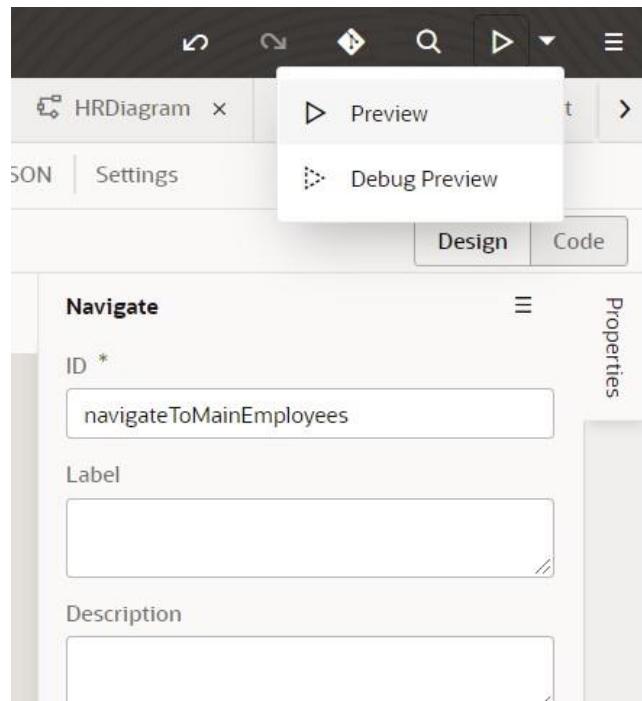
3. Drag Navigate action dari Navigation section yang ada di Action Palatte ke tanda + dibawah action start.



4. Pada Navigate Property insptector, Pada filed Target pilih main-employees.



5. Klik Preview . di header untuk menguji halaman dan navigasi. Applikasi akan membuka browser tab yang lain, click Create dan tambahkan data departemtn (contoh: IT -> Floor 2). Kemudian klik Save.



**Create Department**

Name	IT
Location	Floor 2

**Departments**

	Id	Name	Location
1	1	Administration	
2	2	IT	

- Klik Display Employees Page, kemudian klik Create. Tambahkan data employee sesuai dengan nama departemen yang baru dibuat.

**Employees**

	Id	Department	Hire Date	Email
1	1	Lasile Smith	2021-10-03	lsmith@example.com

Oracle Visual Builder | TugasPutr x

Create Employee x

https://visualbuilder374338-putrinurifa.bui... ...

My Application 1941720036@student.polinema.ac.id ...

## Create Employee

Name	Putri Nurifa
Hire Date	10/14/2021 <span>...</span>
Email	putrinurifa818@gmail.com
Department	IT <span>...</span>

Cancel Save

Oracle Visual Builder | TugasPutr x

https://visualbuilder374338-putrinurifa.bui... ...

My Application 20036@student.polinema.ac.id ...

## Employees

Create

Id ↑	Departmen ↑	Hire Date ↑	Email ↑
1	Lasile Smith	2021-10-03	lsmith@example.com
2	Putri Nurifa	2021-10-14	putrinurifa818@gmail.com

✓ Confirmation x

**Employee saved**

Employee record successfully created

## Action Chain halaman Employees ke halaman Departments

- Untuk proses action chain halaman employees ke halaman departments sama dengan pada langkah sebelumnya, berinama tombol “Display Departments”. Untuk Navigate Page “Navigate maindepartments”.

The screenshot shows the Page Designer interface for a web application. The left sidebar lists 'Web Apps' and the current project 'hrwebapp'. Under 'main', there are several files: 'main-create-dep.', 'main-create-emp.', 'main-departmen', and 'main-employees'. The 'Resources' folder contains 'components', 'css', 'images', 'js', 'strings', and 'Root Pages'. The 'main-employees' file is currently selected. In the center, the 'Employees' page is displayed with a table of employee data. A green-bordered button labeled 'Display Department' is highlighted. On the right, the 'Properties' panel is open for this button. The 'Events' tab is selected, and the 'Actions' section shows the ID 'Display Department' and the text 'Display Department'. The 'Events' tab is also selected in the properties panel. The bottom status bar shows '100%'.

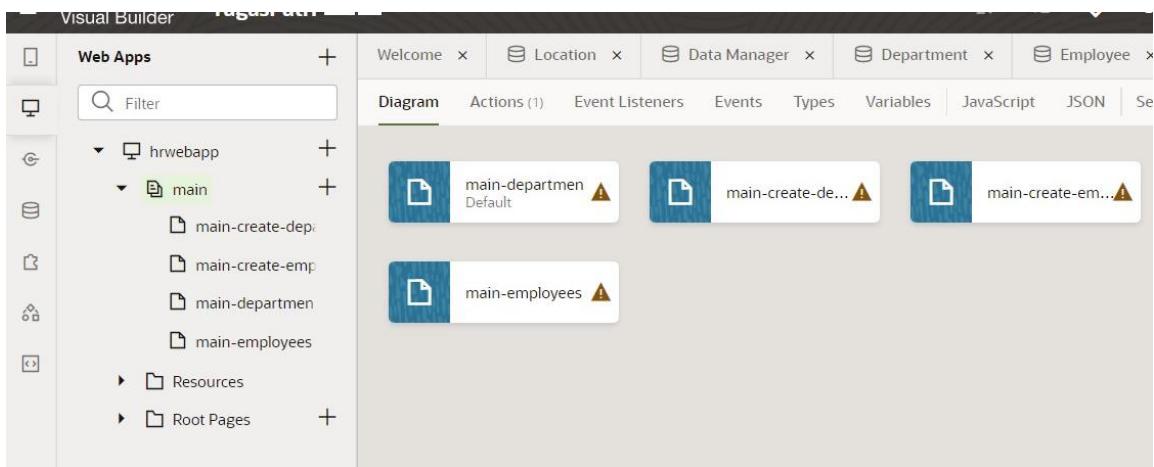
This screenshot is similar to the previous one, showing the 'Employees' page in the Page Designer. The 'Display Department' button is selected. The properties panel shows the same settings as before. However, a context menu is now open over the button, with the 'Events' tab selected. The menu includes options like '+ New Event' and '+ New Custom Event'. The bottom status bar shows 'About'.

- Klik Preview .

The screenshot shows two pages of an Oracle Visual Builder application:

- Employees Page:** Displays a table of employee data with columns: Id, Name, Hire Date, and Email. Two rows are present:
  - Id: 1, Name: Lasile Smith, Hire Date: 2021-10-03, Email: lsmith@example.com
  - Id: 2, Name: Putri Nurifa, Hire Date: 2021-10-14, Email: putrinurifa818@gmail.com
- Departments Page:** Displays a table of department data with columns: Id, Name, and Location. Two rows are present:
  - Id: 1, Name: Administration
  - Id: 2, Name: IT

3. Klik main -> Page Flow, akan muncul diagram kurang lebih seperti berikut:



## Import Data ke Business Object

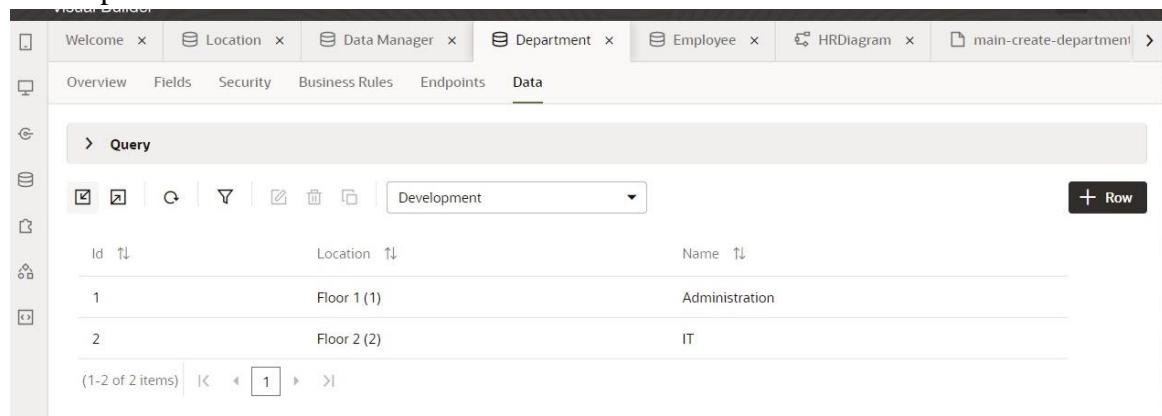
- Pada Navigator, Pilih tab Business Object , kemudian klik Object tab.

Type	Field Name	Display Label	Required	Description
A	createdBy	Created By	—	
E	creationDate	Created	—	
#	id	Id	✓	
E	lastUpdateDate	Last Updated	—	
A	lastUpdatedBy	Last Updated By	—	
E	location	Location	—	
A	name	Name	✓	

- Klik Departement kemudian klik Data tab, kemudian akan tampil jenis object yang telah kita buat tadi.

Id	Location	Name
1	Floor 1 (1)	Administration
2	Floor 2 (2)	IT

3. Klik Import from File .



The screenshot shows the Data Manager interface in Visual Studio. The top navigation bar includes tabs for Welcome, Location, Data Manager, Department, Employee, HRDiagram, and main-create-department. The 'Data' tab is selected. Below the tabs is a toolbar with icons for Overview, Fields, Security, Business Rules, Endpoints, and Data. A search bar labeled 'Query' contains the text 'Development'. A table below displays two rows of data:

Id	Location	Name
1	Floor 1 (1)	Administration
2	Floor 2 (2)	IT

At the bottom of the table are navigation buttons: '(1-2 of 2 items)', '< <', '1', '> >', and a page number '1'.

4. Pada dialog-box import data, pilih Replace untuk Row Handling jika belum dipilih. Kemudian klik upload box, browse, pilih file Departement.csv dan klik Import.

## Import Data

X

Provide the file containing data that you wish to import and choose to append or replace existing data.



Department.csv

Row Handling:

- Append - This will append all records from the import file to the existing data in Development. *This may create duplicate records.*
- Replace - This will *erase all records currently in Development* and replace them with records from the import.

Cancel

Import

## Import from File

X

✓ We successfully imported all your data.

▼ ✓ Import Results

▼ ✓ Department.csv

✓ Successful import to Department

Close

Visual Builder

Overview Fields Security Business Rules Endpoints Data

> Query

Development

	Location	Name
1	Floor 1 (1)	Administration
2	Floor 2 (2)	Marketing
3	Floor 3 (3)	Purchasing
4	Floor 1 (1)	Human Resources
5	Floor 2 (2)	IT
6	Floor 3 (3)	Sales

(1-6 of 6 items) | < | 1 | > |

- Ulangi langkah yang sama (langkah 1-4) untuk import data Employee menggunakan file Employee.csv.

Business Objects + =

Welcome x Location x Data Manager x Department x Employee x HRDiagram x main-create-department! >

Objects Diagrams

Filter

Department Employee Location

> Query

Development

Department	Email	Hire Date	Id	Name
Administration (1)	lsmith@example.com	Oct 5, 2021	1	Lasile Smith
Marketing (2)	putrinurifa818@gmail.com	Oct 14, 2021	2	Putri Nurifa

(1-2 of 2 items) | < | 1 | > |

**Import Data**

Provide the file containing data that you wish to import and choose to append or replace existing data.

**Employee.csv**

Row Handling:

Append - This will append all records from the import file to the existing data in Development. *This may create duplicate records.*

Replace - This will *erase all records currently in Development* and replace them with records from the import.

**Cancel Import**

The screenshot shows the Oracle HR Application interface. On the left, there's a sidebar with icons for Business Objects, Objects, Diagrams, and a search bar labeled 'Filter'. Below these are lists for Department, Employee (which is selected), and Location. The main area has tabs for Welcome, Location, Data Manager, Department, Employee, and HRDIA. The 'Data' tab is active. A sub-tab 'Query' is open, showing a table with the following data:

Department	Email	Hire Date	Id	Name
Administration (1)	edavis@example.com	Jun 17, 2006	1	Elizabeth Davis
Administration (1)	jmiller@example.com	Sep 21, 2008	2	James Miller
Marketing (2)	jgarcia@example.com	Jan 13, 2004	3	Jennifer Garcia
Purchasing (3)	mwilliams@example.com	Jan 3, 2009	4	Mark Williams
Marketing (2)	sbrown@example.com	May 21, 2010	5	Sarah Brown
Administration (1)	dsmith@example.com	Jun 25, 2008	6	David Smith
Marketing (2)	kjohnson@example.com	Feb 5, 2009	7	Karen Johnson
Purchasing (3)	rwilson@example.com	Feb 7, 2010	8	Richard Wilson
Administration (1)	ljones@example.com	Aug 17, 2005	9	Linda Jones

At the bottom, it says '(1-9 of 9 items)' with navigation arrows.

## Halaman Edit Department Business Object (data manipulation)

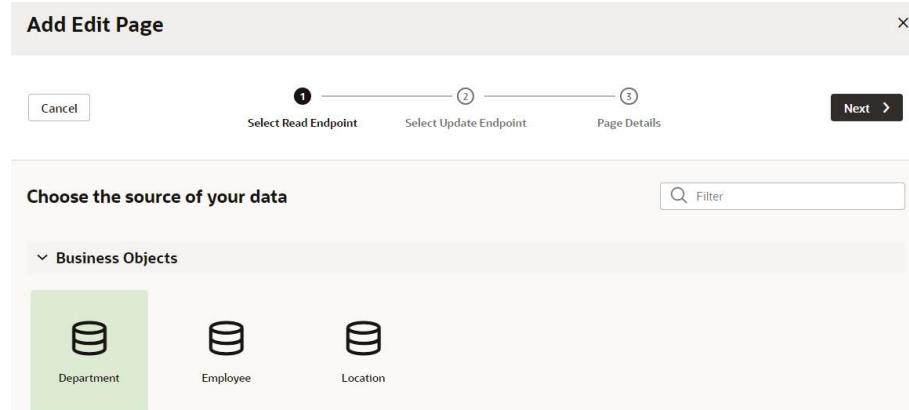
1. Pada aplikasi HR Application, tab Web Application pilih halaman main-departments -> Page Designer. Klik Reload Page jika diperlukan, untuk menampilkan update halaman terbaru (setelah import data).
2. Klik komponen table yang ada di halaman main-departments, kemudian pada properties (side menu sebelah kanan) pilih Quick Start, klik Add Edit Page.

The screenshot shows the Oracle Page Designer interface. At the top, there are tabs for Page Designer, Actions (5), Event Listeners (5), Events, Types (2), Variables (3), JavaScript, JSON, and Settings. The main area shows a page titled 'My Application' with a table component. The table has columns 'Id', 'Name', and 'Location'. The data is as follows:

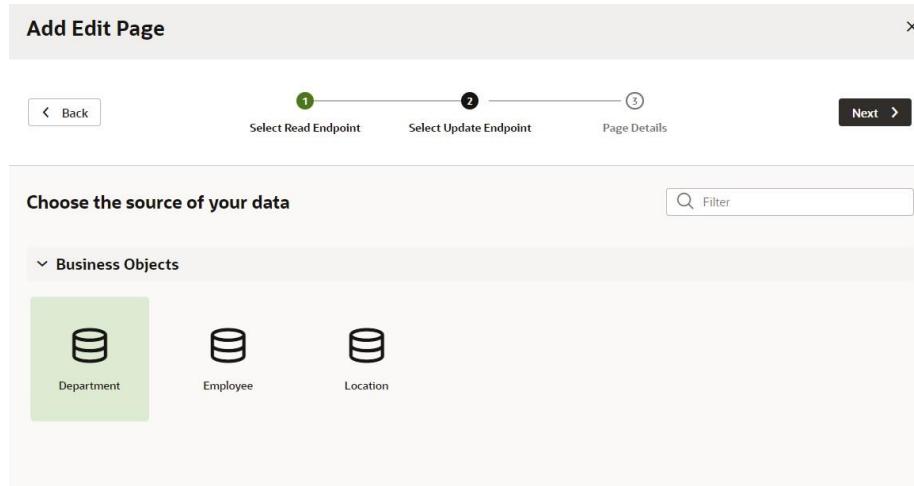
Id	Name	Location
1	Administration	
2	Marketing	
3	Purchasing	
4	Human Resources	
5	IT	
6	Sales	

Below the table, there are buttons for 'Create' and 'Display Employee'. To the right, there's a 'Properties' panel with a 'Table' section. Under 'Quick Start', there are several options: 'Add Data' (Map the table to a data source), 'Add Create Page' (Add a new action and a page with a form for creating a row), 'Add Edit Page' (Add a new action and a page updating the selected record), 'Add Detail Page' (Add a new action and a page with the record details), and 'Add Delete Action' (Add a new action deleting the selected record). The URL at the bottom is: https://visualbuilder374338-outrununifa.builder.oco.oraclecloud.com/ic/builder/?root=application&application=TugasPutri-1.0&artifact=webAops - hrwebaop - flows - main - pages - main-department-page&section=pageDesigner#

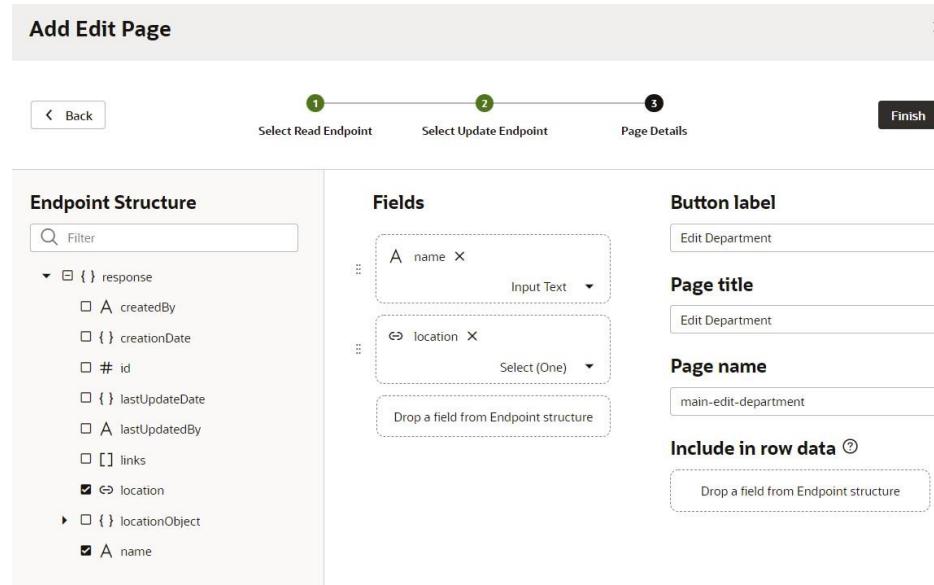
3. Untuk halaman end point, pilih business object Department, klik Next.



4. Untuk update end point, pilih business object Department, kemudian klik Next.



5. Pada halaman Page Details, pilih location dibawah struktur Endpoint (name otomatis akan dipilih), klik Finish. Tombol Edit Department akan tampil pada halaman maindepartment, tetapi halaman tersebut masih belum aktif.



The screenshot shows the Page Designer interface with the following details:

- Header:** Welcome, Location, Data Manager, Department, Employee, HRDiagram, main-create-depart.
- Toolbar:** Page Designer, Actions (6), Event Listeners (6), Events, Types (2), Variables (3), JavaScript, JSON, Settings.
- Left Sidebar:** Components (Common: Heading, Text, Highlight Text, Label, Badge, Paragraph, Hyperlink, Image, Icon, Avatar, Camera, Button, Button Set (One), Button Set (Many), Train, Menu Button, Menu, Messages; Field: Input Text, Text Area).
- Central Area:** A table titled "Departments" with columns: Create Table, Display Employee, Edit Department. The table data is as follows:

	ID	Name	Location
1	1	Administration	
2	2	Marketing	
3	3	Purchasing	
4	4	Human Resources	
5	5	IT	
6	6	Sales	

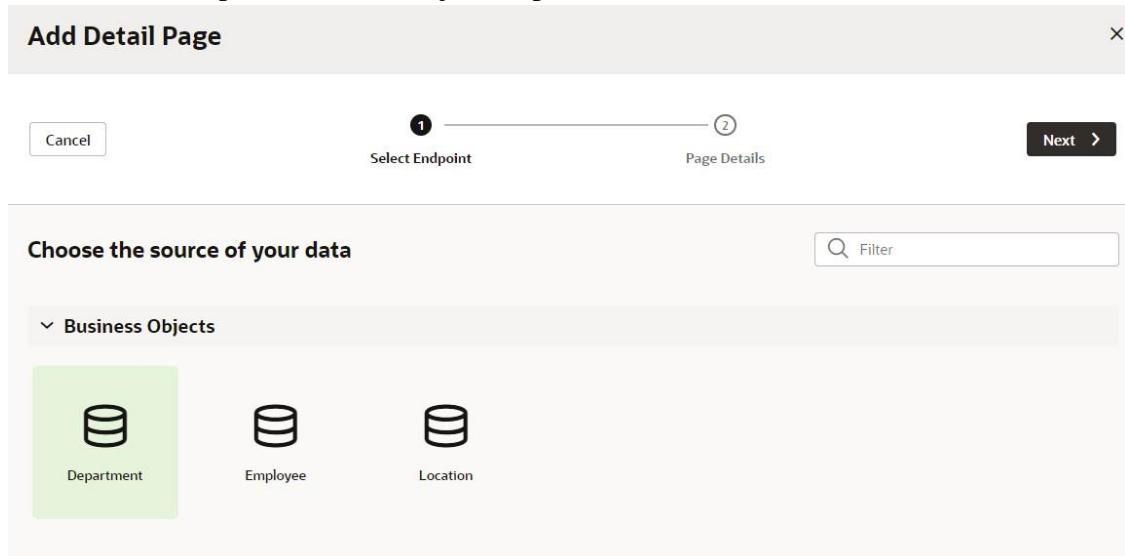
## Halaman Detail untuk Department Busines Object 1.

Pilih Quick Start menu, klik Add Detail Page.

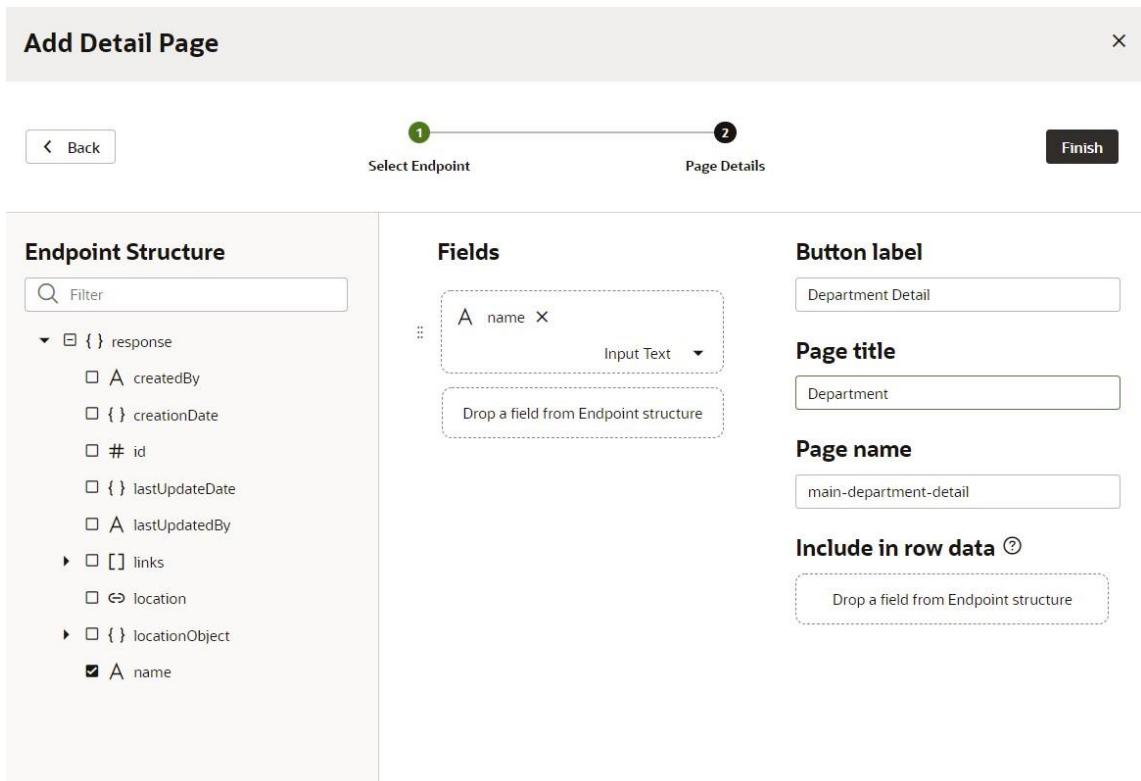
The Quick Start menu is displayed with the following options:

- General, Data, Events, All, Quick Start (selected).
- Add Data: Map the table to a data source, so we can populate it with data.
- Add Create Page: Add a new action and a page with a form for creating a row.
- Add Edit Page: Add a new action and a page updating the selected record.
- Add Detail Page: Add a new action and a page with the record details.
- Add Delete Action: Add a new action deleting the selected record.

2. Pilih halaman end point business object Department,



3. Pada Page Detail, pilih name dibawah EndPoint Structure, expand locationObject dan items (item[i]) pilih name, klik Finish. Tombol Department Detail akan ditampilkan pada toolbar yang ada pada halaman main-department, untuk saat ini tombol tersebut masih belum aktif



4. Klik Live, pilih data (terserah), klik tombol Departement Detail untuk membuka halaman maindepartment.

The screenshot shows the Visual Builder interface with the 'Design' tab selected. The main area displays a table titled 'Departments' with the following data:

	Name	Location
1	Administration	
2	Marketing	
3	Purchasing	
4	Human Resources	
5	IT	
6	Sales	

## 5. Klik Design untuk kembali ke mode Desain.

The screenshot shows the Visual Builder interface with the 'Design' tab selected. A dashed selection box highlights the entire table structure from the previous screenshot. The table data remains the same:

	Name	Location
1	Administration	
2	Marketing	
3	Purchasing	
4	Human Resources	
5	IT	
6	Sales	

6. Klik main-department-detial, pilih Name (paling bawah), ganti label menjadi Location (Properties -> General -> Label Hint)

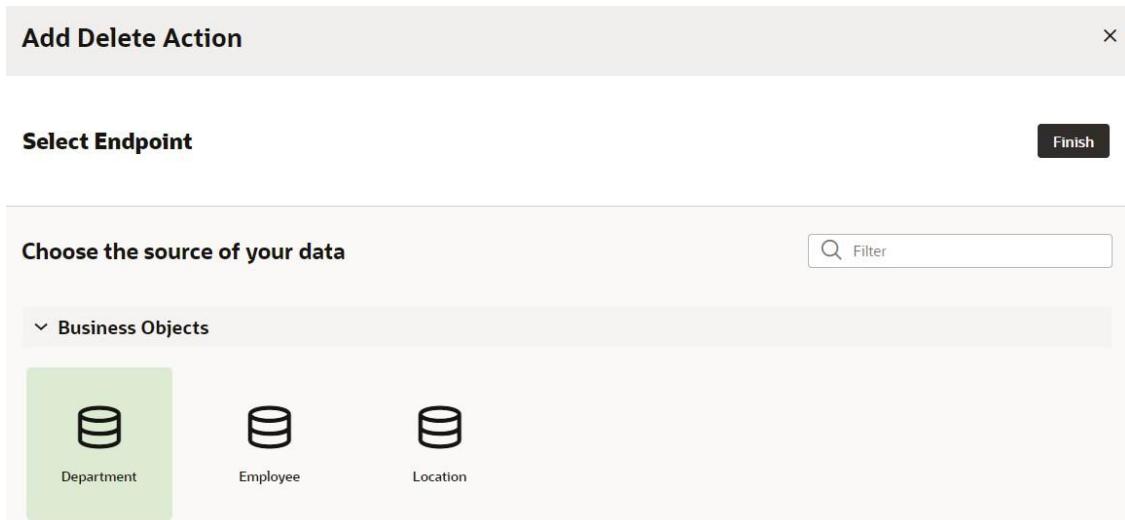
The screenshot shows the Oracle VisualBuilder interface. The top navigation bar includes tabs for Welcome, Location, Data Manager, Department, Employee, HRDiagram, and main-create-depar. The current tab is 'Page Designer'. The main workspace displays a page titled 'Department' with a header containing 'Location' and 'Administration'. Below the header is a 'Toolbar' section with a 'Back' button. On the left, a 'Components' panel lists various UI elements like Heading, Text, Label, Paragraph, Hyperlink, Image, Icon, Avatar, Camera, Button, Button Set, and Button Set (Many). On the right, a 'Properties' panel is open for an 'Input Text' component. Under the 'General' tab, the 'Label Hint' field is currently set to 'Location'. Other properties shown include 'Placeholder' (empty), 'Required' (unchecked), 'Disabled' (unchecked), and 'Readonly' (checked). Below these are options for 'Clear Icon' (Always, Conditional, Never).

## Halaman Delete untuk Department Busines Object

1. Kembali ke halaman main-department, klik Quick Start kemudian klik Add Delete Action.

The screenshot shows the Oracle VisualBuilder interface again. The top navigation bar is identical. The main workspace now displays a page titled 'Departments' with a table showing five departments: Administration, Marketing, Purchasing, Human Resources, and IT. Above the table are buttons for 'Create', 'Display Employee', and 'Edit Department'. The 'Table' component is selected in the 'Components' panel. On the right, the 'Properties' panel is open for a 'Table' component. Under the 'General' tab, there is a note: 'Map the table to a data source, so we can populate it with data.' Below this are five 'Quick Start' actions: 'Add Data' (Map to data source), 'Add Create Page' (Add a new action and a page with a form for creating a row), 'Add Edit Page' (Add a new action and a page updating the selected record), 'Add Detail Page' (Add a new action and a page with the record details), and 'Add Delete Action' (Add a new action deleting the selected record). A URL at the bottom of the screen is: https://visualbuilder374338-putrinurifa.builder.ocp.oraclecloud.com/ic/builder/?root=application&application=TugasPutri-1.0&artifact=webApps-\_hrwebapp-\_flows-\_main\_-... PM

2. Pilih Endpoint business object Department



3. Tombol Delete Department akan ditampilkan pada toolbar, kondisi tombol akan berada pada inactive.

	ID	Name	Location
1	Administration		
2	Marketing		
3	Purchasing		
4	Human Resources		
5	IT		
6	Sales		

## Test Fungsi Halaman Department Busines Object

1. Lakukan test pada setiap tombol yang telah Anda buat dengan menggunakan mode review

Employees			
Create		Display Department	
Id	Department	Hire Date	Email
9	Linda Jones	2005-08-17	ljones@example.com
6	David Smith	2008-06-25	dsmith@example.com
2	James Miller	2008-09-21	jmillier@example.com
1	Elizabeth Davis	2006-06-17	edavis@example.com
7	Karen Johnson	2009-02-05	kjohnson@example.com
5	Sarah Brown	2010-05-21	sbrown@example.com
3	Jennifer Garcia	2004-01-13	jgarcia@example.com
8	Richard Wilson	2010-02-07	rwilson@example.com
4	Mark Williams	2009-01-03	mwilliams@example.com

About

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2. Cobalah menambahkan Data, Update, dan menghapus data. - Create

My Application

## Create Employee

Name	Putri Nurifa Firdausia
Hire Date	10/15/2021
Email	putrinurifa818@gmail.com
Department	Purchasing

**Cancel** **Save**

My Application

## Employees

Employee Details			
Create	Display Department		
ID	Department	Hire Date	Email
9	Linda Jones	2005-08-17	ljones@example.com
6	David Smith	2008-06-25	dsmith@example.com
2	James Miller	2008-09-21	jmiller@example.com
1	Elizabeth Davis	2006-06-17	edavis@example.com
7	Karen Johnson	2009-02-05	kjohnson@example.com
5	Sarah Brown	2010-05-21	sbrown@example.com
3	Jennifer Garcia	2004-01-13	jgarcia@example.com
10	Putri Nurifa Firdausia	2021-10-15	putrinurifa818@gmail.com
8	Richard Wilson	2010-02-07	rwilson@example.com
4	Mark Williams	2009-01-03	mwilliams@example.com

- Edit

## Edit Department

Name Administration

Location Floor 1 ▾

[Cancel](#)[Save](#)

## Edit Department

Name Administration

Location Floor 3 ▾

[Cancel](#)[Save](#)[About](#)

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- [Hapus](#)

## Departments

[Create](#) [Display Employee](#) [Edit Department](#) [Department Detail](#) [Delete Department](#)

[Id ↑](#) [Name ↑](#) [Location](#)

7	Manajer
1	Administration
2	Marketing
3	Purchasing
4	Human Resources
5	IT

✓ Confirmation

X
1941720036@student.polinema.ac.id

**Department deleted**

Department [7] successfully deleted

## Departments

[Create](#) [Display Employee](#) [Edit Department](#) [Department Detail](#) [Delete Department](#)

## Departments

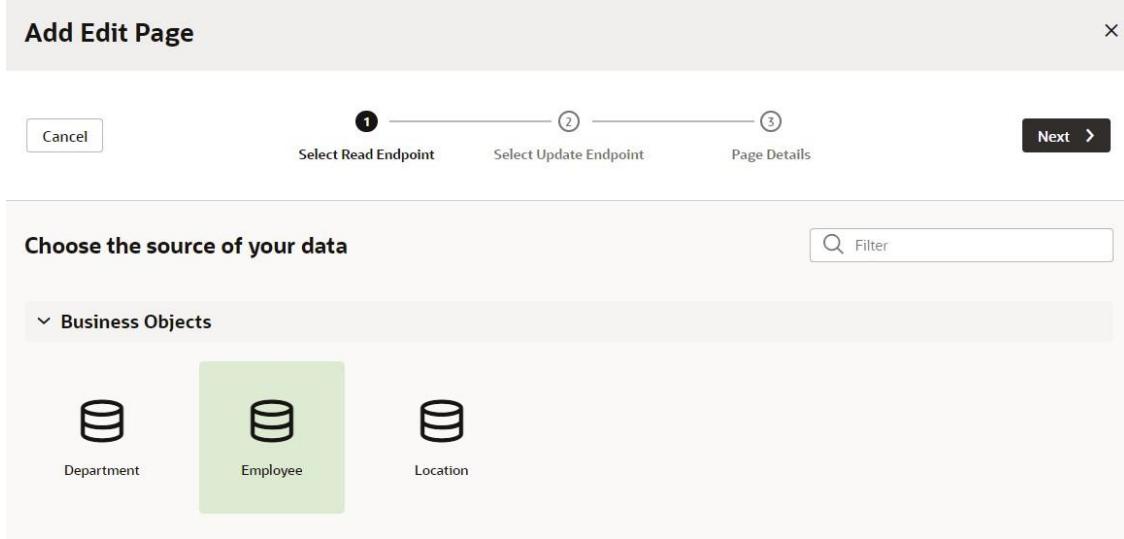
[Create](#) [Display Employee](#) [Edit Department](#) [Department Detail](#) [Delete Department](#)

[Id ↑](#) [Name ↑](#) [Location](#)

1	Administration
2	Marketing
3	Purchasing
4	Human Resources
5	IT
6	Sales

## Employee Business Object

1. Tambahkan halaman edit, detail dan delete pada halaman busines object Employee.
2. Preses pembuat halaman sama dengan langkah sebelumnya, Pilih Quick Start (Add Edit Page dan Delete Action Page.



## Add Edit Page

1 Select Read Endpoint    2 Select Update Endpoint    3 Page Details    Back    Finish

Endpoint Structure	Fields	Button label																				
<input type="text" value="Filter"/> <input type="button" value="Search"/>	<table border="1"><tr><td>A name</td><td>X</td></tr><tr><td>Input Text</td><td>▼</td></tr><tr><td colspan="2">⋮</td></tr><tr><td>✉ email</td><td>X</td></tr><tr><td>Email</td><td>▼</td></tr><tr><td colspan="2">⋮</td></tr><tr><td>📅 hireDate</td><td>X</td></tr><tr><td>Input Date</td><td>▼</td></tr><tr><td colspan="2">⋮</td></tr><tr><td colspan="2">Drop a field from Endpoint structure</td></tr></table>	A name	X	Input Text	▼	⋮		✉ email	X	Email	▼	⋮		📅 hireDate	X	Input Date	▼	⋮		Drop a field from Endpoint structure		<input type="text" value="Edit Employee"/>
A name	X																					
Input Text	▼																					
⋮																						
✉ email	X																					
Email	▼																					
⋮																						
📅 hireDate	X																					
Input Date	▼																					
⋮																						
Drop a field from Endpoint structure																						
		<b>Page title</b> <input type="text" value="Edit Employee"/>																				
		<b>Page name</b> <input type="text" value="main-edit-employee"/>																				
		<b>Include in row data</b> <small>?</small> <input type="text" value="[] items X"/>																				

**Add Delete Action**

## Select Endpoint

Choose the source of your data

Business Objects

 Department	 Employee	 Location
---	---	---

The screenshot shows the Visual Builder interface with the following details:

- Page Designer:** The active tab in the top navigation bar.
- Components:** A sidebar on the left containing a tree view of components under "Common" and "Field".
- Content Area:** Displays a page titled "Employees" with the following structure:
  - Buttons: Create, Display Department, Edit Employee, Employee Detail, Delete Employee.
  - A "Table" component showing a list of employees:
 

	Id ↑	Department ↑↓	Hire Date ↑↓
9	Linda Jones		2005-08-17
6	David Smith		2008-06-25
2	James Miller		2008-09-21
1	Elizabeth Davis		2006-06-17
7	Karen Johnson		2009-02-05
5	Sarah Brown		2010-05-21
3	Jennifer Garcia		2004-01-13

- Untuk page details pada business object employee pilih name (otomatis dipilih) hireDate, email dan department.

The screenshot shows the "Add Detail Page" wizard with the following steps:

- Select Endpoint:** Step 1. A "Cancel" button is on the left, and a "Next >" button is on the right.
- Page Details:** Step 2. A "Choose the source of your data" section with a "Filter" search bar. The "Employee" business object is highlighted with a green background.

**Business Objects:**

- Department
- Employee
- Location

**Add Detail Page**

1 Select Endpoint      2 Page Details      Finish

<b>Endpoint Structure</b>	<b>Fields</b>	<b>Button label</b>	
<input type="text" value="Filter"/> <ul style="list-style-type: none"> <li>- .. ~</li> <li><input type="checkbox"/> { } lastUpdateDate</li> <li><input type="checkbox"/> A lastUpdatedBy</li> <li>▶ <input type="checkbox"/> [] links</li> <li><input type="checkbox"/> ↗ location</li> <li><input checked="" type="checkbox"/> A name</li> <li><input type="checkbox"/> # limit</li> <li>▶ <input type="checkbox"/> [] links</li> <li><input type="checkbox"/> # offset</li> <li><input type="checkbox"/> # totalResults</li> <li><input checked="" type="checkbox"/> email</li> <li><input checked="" type="checkbox"/> hireDate</li> <li><input type="checkbox"/> # id</li> </ul>	<ul style="list-style-type: none"> <li>A name X Input Text</li> <li>hireDate X Input Date</li> <li>email X Email</li> </ul> <p>Drop a field from Endpoint structure</p>	Employee Detail	
			<b>Page title</b> Employee Detail
			<b>Page name</b> main-employee-detail
			<b>Include in row data</b> ⓘ Drop a field from Endpoint structure

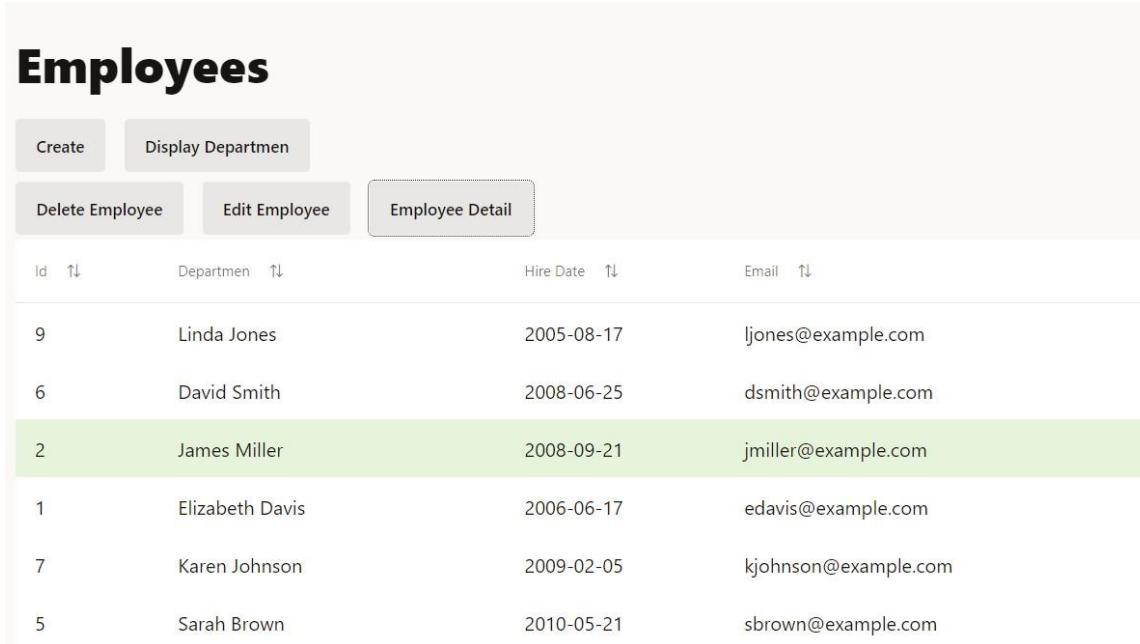
4. Set agar tampilan pada halaman Edit employe menjadi seperti ini (2 row): Pilihan halaman main-edit-employee -> klik formlayout yang ada pada halaman -> Properties -> General -> set Max Columns 2.

Edit Employee

Name	Linda Jones
Email	ljones@example.com
Hire Date	08/17/2005
Department	Administration

Cancel      Save

5. Untuk field detail page pilih name, hireDate, email. Expand departmentObject -> items -> name. Klik Finish.
6. Ganti label name (yang ke dua/paling bawah) pada halaman Employee Detail menjadi Department (Properties-> General -> Label Hint).
7. Tambahkan halaman Delete Employee dengan menggunakan objct busines Employee, sehingga tampilan akhir dari main-employee menjadi seperti dibawah ini:

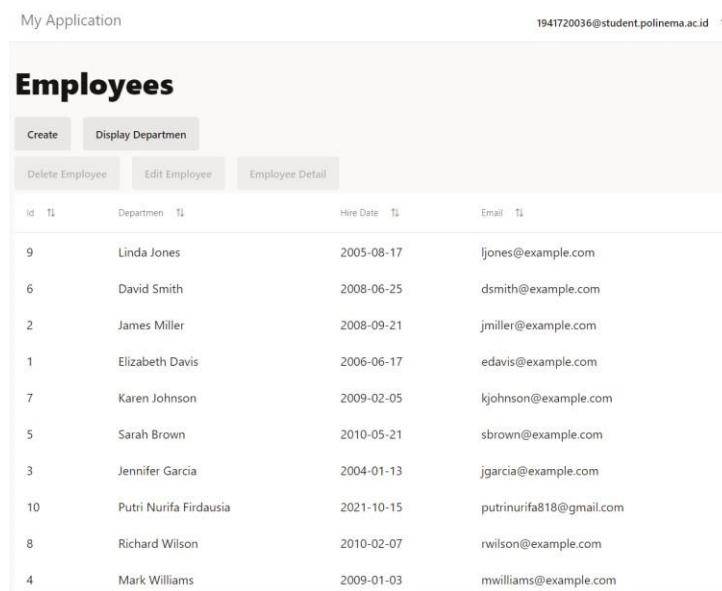


The screenshot shows a web application interface titled "Employees". At the top, there are several buttons: "Create", "Display Department", "Delete Employee", "Edit Employee", and "Employee Detail". The "Employee Detail" button is highlighted with a dotted border. Below these buttons is a table with columns: "Id", "Departmen", "Hire Date", and "Email". The table contains seven rows of data. The second row, which corresponds to James Miller, is highlighted with a light green background. The data in the table is as follows:

Id	Departmen	Hire Date	Email
9	Linda Jones	2005-08-17	ljones@example.com
6	David Smith	2008-06-25	dsmith@example.com
2	James Miller	2008-09-21	jmiller@example.com
1	Elizabeth Davis	2006-06-17	edavis@example.com
7	Karen Johnson	2009-02-05	kjohnson@example.com
5	Sarah Brown	2010-05-21	sbrown@example.com

### Test Fungsi Halaman Employee Busines Object

3. Lakukan test pada setiap tombol yang telah Anda buat dengan menggunakan mode review.
4. Cobalah menambahkan Data, Update, dan menghapus data.



The screenshot shows a web application interface titled "My Application" with a user profile header: "1941720036@student.polinema.ac.id". Below the header is the same "Employees" page as the previous screenshot. The table has the same structure and data as the first screenshot, but it includes an additional row at the bottom with new data:

Id	Departmen	Hire Date	Email
9	Linda Jones	2005-08-17	ljones@example.com
6	David Smith	2008-06-25	dsmith@example.com
2	James Miller	2008-09-21	jmiller@example.com
1	Elizabeth Davis	2006-06-17	edavis@example.com
7	Karen Johnson	2009-02-05	kjohnson@example.com
5	Sarah Brown	2010-05-21	sbrown@example.com
3	Jennifer Garcia	2004-01-13	jgarcia@example.com
10	Putri Nurifa Firdausia	2021-10-15	putrinurifa818@gmail.com
8	Richard Wilson	2010-02-07	rwilson@example.com
4	Mark Williams	2009-01-03	mwilliams@example.com

## Create Employee

Name	Bagus bagus
Hire Date	10/15/2021 <input type="button" value="Calendar"/>
Email	admin@admin.com
Department	IT <input type="button" value="▼"/>

## Employees

<input type="button" value="Create"/> <input type="button" value="Display Department"/>			
<input type="button" value="Delete Employee"/>	<input type="button" value="Edit Employee"/>	<input type="button" value="Employee Detail"/>	
Id ↑↓	Departmen ↑↓	Hire Date ↑↓	Email ↑↓
9	Linda Jones	2005-08-17	ljones@example.com
6	David Smith	2008-06-25	dsmith@example.com
2	James Miller	2008-09-21	jmillier@example.com
1	Elizabeth Davis	2006-06-17	edavis@example.com
7	Karen Johnson	2009-02-05	kjohnson@example.com
5	Sarah Brown	2010-05-21	sbrown@example.com
3	Jennifer Garcia	2004-01-13	jgarcia@example.com
10	Putri Nurifa Firdausia	2021-10-15	putrinurifa818@gmail.com
8	Richard Wilson	2010-02-07	rwilson@example.com
4	Mark Williams	2009-01-03	mwilliams@example.com
11	Bagus bagus	2021-10-15	admin@admin.com

## Edit Employee

Name	David Smith
Email	dsmith@example.com
Hire Date	06/25/2008 <input type="button" value="Calendar"/>
Department	Administration <input type="button" value="▼"/>

## Edit Employee

Name	David Smith
Email	dsmith@example.com
Hire Date	06/25/2008 <input type="button" value="Calendar"/>
Department	IT <input type="button" value="▼"/>

## Employees

✓ Confirmation  
**Employee saved**  
Employee record successfully updated



## Employee Detail

Name	James Miller	Email	jmiller@example.com
Hire Date	09/21/2008	Department	1

[Back](#)

## Employees

[Create](#)[Display Department](#)[Delete Employee](#)[Edit Employee](#)[Employee Detail](#)

Id ↑

Departmen ↑

Hire Date ↑

Email ↑

9

Linda Jones

2005-08-17

ljones@example.com

My Application

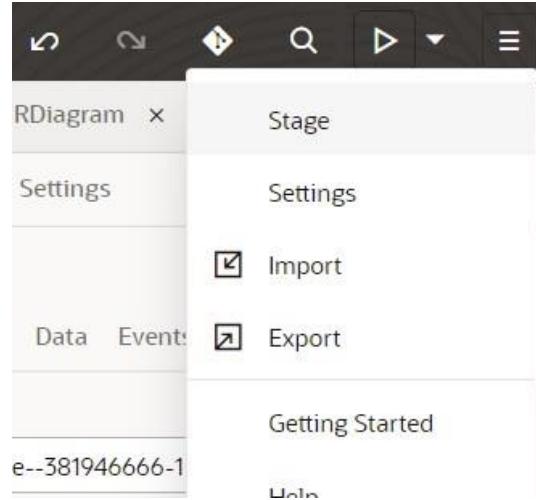
1941720036@student.polinema.ac.id ▾

## Employees

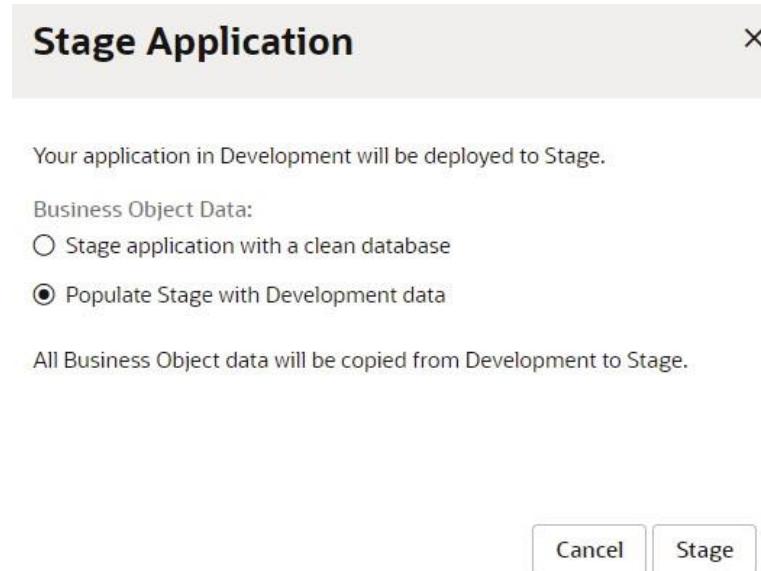
[Create](#)[Display Department](#)[Delete Employee](#)[Edit Employee](#)[Employee Detail](#)

## Stage and Publish Stage

1. Kembali ke halaman utama Visual Builder.
2. Pada aplikasi yang telah dibuat klik Options , kemudian select Stage.



3. Pada popup-box pilih Populate Stage with Development data kemudian klik Stage.



Application stage berubah dari development ke stage.

Visual Applications					<input type="button" value="Import"/>	<input type="button" value="New"/>
Name	Status	Origin	Version	Recent activity	<input type="button" value="≡"/>	
TugasPutri	Stage	Visual Builder	1.0	17 minutes ago	<input type="button" value="☰"/>	

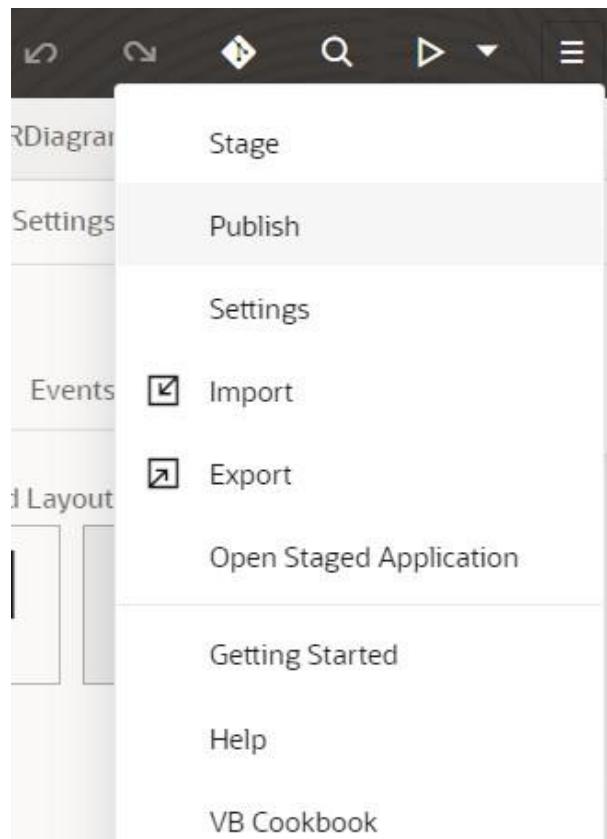
4. Klik Stage, pilih hrwebapp (nama aplikasi web yang kita buat). Setelah kita klik akan membuka tab baru pada web browser yang kita gunakan. Pada halaman yang baru dibuka akan ada data yang kita tambahkan pada saat development.

Visual Applications		
Name	Status	Origin
TugasPutri	Stage	Visual Builder hrwebapp

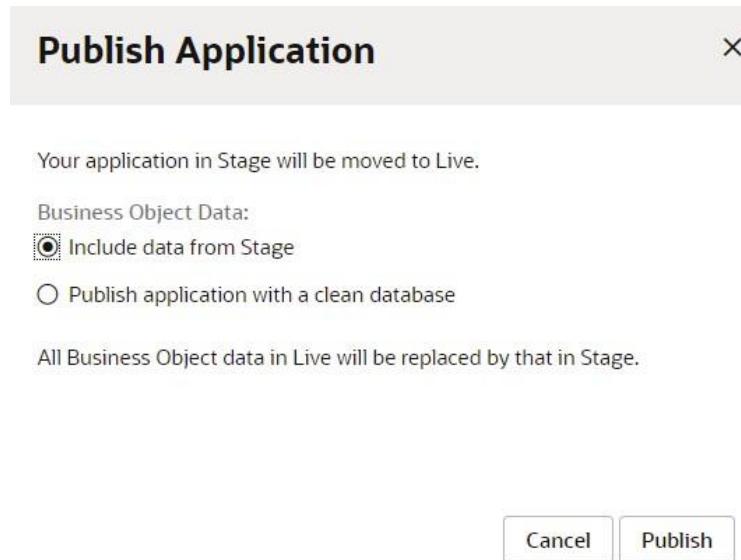
## Publish Application

Setelah kita berhasil menguji aplikasi pada tahab sebelum, kita dapat mempublikasikannya dan membuat aplikasi live. Aplikasi langsung dapat dilihat oleh pengguna dengan kredensial yang tepat.

1. Klik ikon menu dan select Publish.



2. Pada pop-up box select Include data from Stage dan klik Publish.



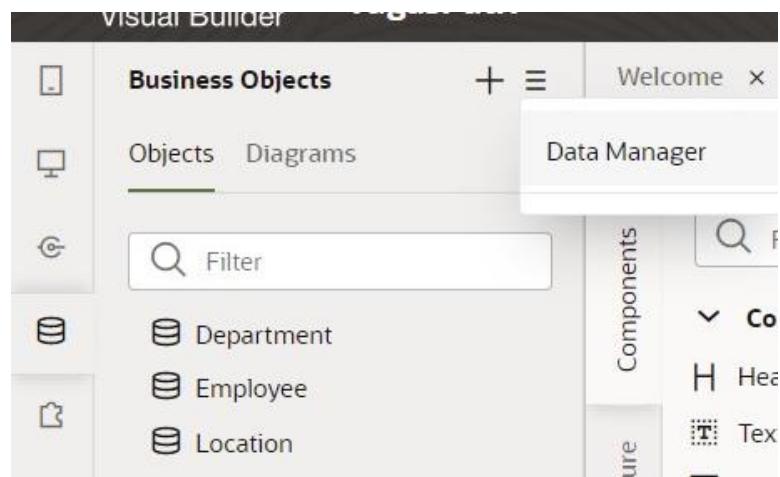
3. Klik OROCLE Visual Builder untuk kembali Visual Applications page
4. Klik Live dan pilih hrwebapp. Aplikasi akan membuka tab browser baru.

Name	Status	Origin	Version	Recent activity
TugasPutri	Live	Visual Builder	1.0	21 minutes ago

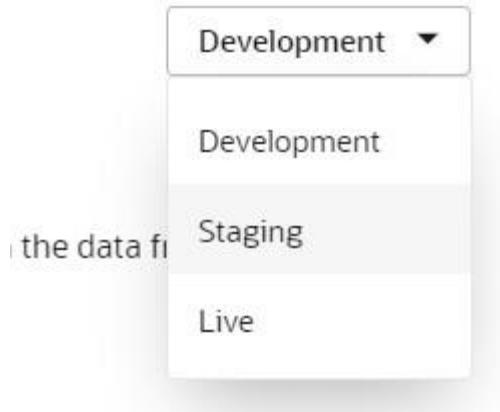
Data akan secara otomatis terisi dengan data saat kita melakukan stage, tetapi jika ingin memulai aplikasi dengan database yang kosong kita bisa memilih Publish application with a clean database.

5. Catat link dari aplikasi yang telah kita buat, dari link tersebut kita membagikannya ke Public User.  
<https://visualbuilder374338-putrinurifa.builder.ocp.oraclecloud.com/ic/builder/rt/TugasPutri/live/webApps/hrwebapp/?page=shell&shell=main&main=main-employees>

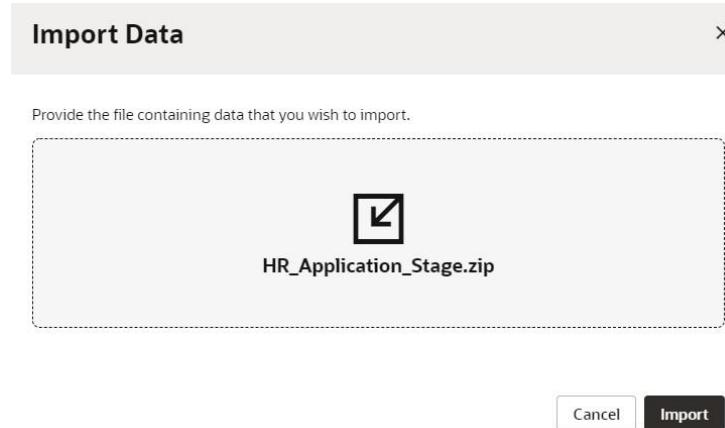
Import data (Opsional) – Stage Proses ini dilakukan ketika stage bukan saat aplikasi di live, buka Visual Applications page, klik HR Application, klik Busines Object , klik Menu , dan pilih Data Manager.



Dari dropdown list pojok kanan, pilih staging import data ke staging database.



Klik Import from File, pada dialog box pilih file HR\_Application\_Stage.zip, klik import, setelah import sukses klik Close.



Pada business object, klik Department, klik Data, pilih Staging pada drop-down list untuk melihat Department baru saja ditambahkanl.

The screenshot shows the Visual Studio Data Manager interface. On the left, the 'Business Objects' sidebar lists 'Department', 'Employee', and 'Location'. The main area shows a table of department data with the following columns: Id, Location, and Name. The data includes:

Id	Location	Name
10	Floor 2 (2)	Administration
20	Floor 3 (3)	Marketing
30	Floor 1 (1)	Purchasing
40	Floor 2 (2)	Human Resources
50	Floor 1 (1)	Shipping
60	Floor 2 (2)	IT
70	Floor 4 (4)	Public Relations
80	Floor 4 (4)	Sales
90	Floor 2 (2)	Executive
100	Floor 1 (1)	Finance
110	Floor 2 (2)	Accounting

At the bottom, a pagination control shows '(1-16 of at least 16 items)' with page numbers 1, 2, ..., 16.

Klik Employee -> tab Data ->kemudian pilih Staging untuk melihat employee baru yang baru ditambahkan.

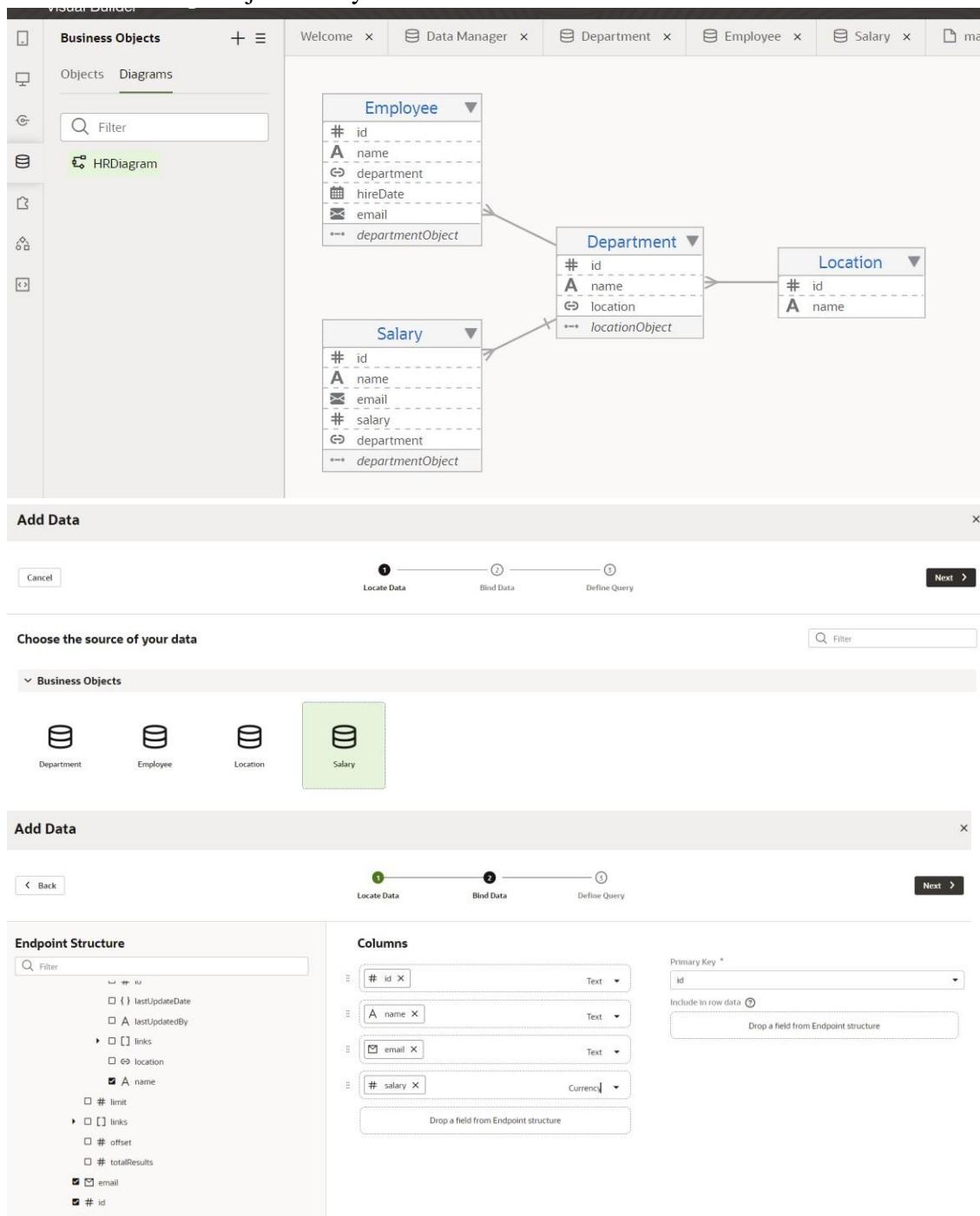
The screenshot shows the Visual Studio Data Manager interface. On the left, the 'Business Objects' sidebar lists 'Department', 'Employee', and 'Location'. The main area shows a table of employee data with the following columns: Department, Email, Hire Date, Id, and Name. The data includes:

Department	Email	Hire Date	Id	Name
Executive (90)	sking@example.com	Jun 17, 2003	100	Steven King
Executive (90)	nkochhar@example.com	Sep 21, 2005	101	Neena Kochhar
Executive (90)	ldehaan@example.com	Jan 15, 2001	102	Lex De Haan
IT (60)	ahunold@example.com	Jan 3, 2006	103	Alexander Hunold
IT (60)	bernst@example.com	May 21, 2007	104	Bruce Ernst
IT (60)	dauustin@example.com	Jun 25, 2005	105	David Austin
IT (60)	vpatabal@example.com	Feb 5, 2006	106	Valli Pataballa
IT (60)	dlorentz@example.com	Feb 7, 2007	107	Diana Lorentz
Finance (100)	ngreenbe@example.com	Aug 17, 2002	108	Nancy Greenberg
Finance (100)	dfaviet@example.com	Aug 16, 2002	109	Daniel Faviet
Finance (100)	jchen@example.com	Sep 28, 2005	110	John Chen

At the bottom, a pagination control shows '(1-16 of at least 16 items)' with page numbers 1, 2, ..., 16.

## Tugas

1. Buatlah laporan dan dokumentasi dari praktikum yang Anda lakukan.
2. Tambahkan business object Salary



My Application 1941720036@student.polinema.ac.id

# Salary

Create Salary Edit Salary Salary Detail Delete Salary

ID	Name	Email	Salary
1	Purchasing	putrinurifa818@gmail.com	\$90,000,000.00

General Events (1) All

- oAction → navigateToCreateSalaryChain

Event Select  
oAction  
Action Chain Select  
navigateToCreateSalaryChain  
Input Parameters Assign  
None

+ New Event

On 'oAction'  
+ New Custom Event

Visual Builder

Web Apps Actions (6) Event Listeners (0) Events Types (1) Variables (2) JavaScript JSON Settings

Action Chains PageVbEnterChain Diagram Variables Tests

Actions General Logic Navigation

Navigation

Start Navigate End

Properties

Properties

Properties

- Buat main page dari salary dan buat action create, edit, detail dan Delete.

## Add Create Page

Choose the source of your data

Business Objects

- Department
- Employee
- Location
- Salary**

## Add Create Page

Back Select Endpoint Page Detail

**Endpoint Structure**

Fields

A name	Input Text
E email	Email
G department	Select (One)
# salary	Input Number

Drop a field from Endpoint structure

**Button label**: Create Salary

**Page title**: Create Salary

**Page name**: main-create-salary

**Include in row data**: Drop a field from Endpoint structure

## Add Edit Page

Back Select Read Endpoint Select Update Endpoint Page Details

**Endpoint Structure**

Fields

E email	Email
A name	Input Text
# salary	Input Number
G department	Select (One)

Drop a field from Endpoint structure

**Button label**: Edit Salary

**Page title**: Edit Salary

**Page name**: main-edit-salary

**Include in row data**: Drop a field from Endpoint structure

## Add Detail Page

Cancel Select Endpoint Page Details

Choose the source of your data

Business Objects

- Department
- Employee
- Location
- Salary**

**Add Detail Page**

1 Select Endpoint 2 Page Details Finish

**Endpoint Structure**

Filter

- ✓ A response
  - ✓ A createdBy
  - ✓ A creationDate
  - ✓ department
  - ✓ departmentObject
  - ✓ email
  - ✓ id
  - ✓ lastUpdateDate
  - ✓ A lastUpdatedBy
  - ✓ links
  - ✓ A name
  - ✓ # salary

**Fields**

A name X Input Text  
 email X Email  
 department X Text  
 # salary X Input Number

Drop a field from Endpoint structure

**Button label**  
 Salary Detail

**Page title**  
 Salary Detail

**Page name**  
 main-salary-detail

**Include in row data** ⓘ  
 Drop a field from Endpoint structure

**Add Delete Action**

Finish

**Select Endpoint**

Choose the source of your data Filter

Business Objects

Department Employee Location Salary

My Application

1941720036@student.polinema.ac.id



## Create Salary

Name Putri Nurifa

Email putrinurifa818@gmail.com

department Purchasing

Salary 90000000

Required

Cancel

Save

About

## Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

## Create Salary

Name

Smith

Email

admin@admin.com

department

IT

Salary

890

[Cancel](#)[Save](#)

# Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

2

IT

admin@admin.com

\$890.00

# Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

2

IT

admin@admin.com

\$890.00

# Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

2

IT

admin@admin.com

\$9,000.00

## Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

2

IT

admin@admin.com

\$9,000.00

## Salary Detail

Name

Smith

Email

admin@admin.com

department

5

Salary

9,000

[Back](#)

### About

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## Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00

2

IT

admin@admin.com

\$9,000.00

Confirmation

**Salary deleted**

Salary [2] successfully deleted

## Salary

[Create Salary](#)[Edit Salary](#)[Salary Detail](#)[Delete Salary](#)

Id ↑

Name ↑

Email ↑

Salary

1

Purchasing

putrinurifa818@gmail.com

\$90,000,000.00