```
ember new <name_of_the_app>
ember new loopylog
To start server:
ember s
ember generate
ember g template application
application.hbs
<h1>My Application</h1>
{{#link-to "production"}}production{{/link-to}}
{{outlet}}
ember g route production
production.hbs
<h2>Production</h2>
To install addon
ember install ember-pikaday
```

-->once install the add ons server has to refresh. so once aging enter <<ember s>> to start server

python -m http.server 8000

python -m SimpleHTTPServer

```
Add more plugins
ember install ember-cli-sass
ember install ember-cli-bourbon
ember install ember-font-awesome
restart server:
==========
ember s
update your application.hbs file which includes
<nav class="title">
<h1> Heading</h1>
</nav>
<main>
{{outlet}}
</main>
```

```
updated app.scss file with the spec styles.
check if the styles changed
<u>optional</u>
if styles not changed.
rmdir /s node_modules bower_components dist tmp
npm install
bower install
generate route for dimension page:
ember g route production/dimension
add model in production.js
model() {
 return {
   "name" : "Tom",
   "age":23,
   "gender" : "Female"
 }
```

Add the following in the production.hbs file:

```
<h2>Production</h2>
Name : {{model.name}}
Age: { {model.age} } 
Gender : {{model.gender}}
mkdir public\images
mkdir public\data
copy image into images
copy employee.json into data
production.js
import Ember from 'ember';
export default Ember.Route.extend({
 model() {
   /*return {
     "name" : "Tom",
     "age":23,
     "gender" : "Female"
   return Ember.$.getJSON("/data/employee.json");
});
production.hbs
<h2>Production</h2>
Name : {{model.[10].name}}
Age: { {model.[10].age} } 
Gender: { model.[10].gender} }
```

nested routes:

production.hbs

```
<h2>Production</h2>
Product : {{model.[10].ProductName}}
Boards: { model.[10].BoardsSum} }
BoardFeet : {{model.[10].BoardFeetSum}}
{{#link-to 'production.dimension' }}Dimension :
\{\{model.[10].DimensionName\}\}\ \{\{\{link-to\}\}
{{outlet}}
dimension.hbs
<h3>Dimension Details</h3>
{{outlet}}
Dynamic Segments:
production.js
import Ember from 'ember';
export default Ember.Route.extend({
 model(params) {
   /*return {
     "name" : "Tom",
      "age":23,
      "gender" : "Female"
    ] */
    return
Ember.$.getJSON(`/data/production.json?start=${params.start}&end
=${params.end}`);
 }
});
router.js
import Ember from 'ember';
import config from './config/environment';
```

```
const Router = Ember.Router.extend({
 location: config.locationType,
 rootURL: config.rootURL
});
Router.map(function() {
 this.route('production', {path: "/:start/to/:end"}, function()
   this.route('dimension', {path: "/dimension/:dimension id"});
 });
});
export default Router;
production.hbs
<h2>Production</h2>
Product : {{model.[10].ProductName}}
Boards: { model.[10].BoardsSum} } 
BoardFeet: {{model.[10].BoardFeetSum}}
{p>{{#link-to 'production.dimension'}
model.[10].DimensionID} } Dimension : {{model.[10].DimensionName}}
{ { /link-to } } 
{{outlet}}
dimension.hbs
<h3>Dimension : {{model.DimensionName}}</h3>
{{outlet}}
Use the below link in browser:
http://localhost:4200/yesterday/to/today
```

Index Routes:

```
Product : {{model.[10].ProductName}}
Boards: {{model.[10].BoardsSum}}
BoardFeet : {{model.[10].BoardFeetSum}}
{p}{{#link-to 'production.dimension'
model.[10].DimensionID}}Dimension : {{model.[10].DimensionName}}
{{/link-to}}

production.hbs
<h2>Production</h2>

{{outlet}}

Check the below URl again in browser:
```

Redirecting and Loading:

http://localhost:4200/yesterday/to/today

ember g route index

index.js

```
import Ember from 'ember';

export default Ember.Route.extend({
   beforeModel() {
     this.transitionTo('production', "yesterday", "today");
   }
});
```

ember g template production-loading

production-loading.hbs

LOADING!!!

copy loading.gif into public/images folder

production-loading.hbs

```
<div class="centroid">
  <img src="/images/loading.gif"><br>
  Loading Production data...
</div>
```

Update production.js file as below:

production.js

```
import Ember from 'ember';
const Promise = Ember.RSVP.Promise;
export default Ember.Route.extend({
 model(params) {
   /*return {
      "name" : "Tom",
      "age":23,
      "gender" : "Female"
    ] */
    //return
Ember.$.getJSON(`/data/production.json?start=${params.start}&end
=${params.end}`);
    return new Promise(function(resolve) {
      setTimeout(function() {
        let data =
Ember.$.getJSON(`/data/production.json?starts at=${params.start}
&ends at=${params.end}`);
       resolve (data);
     }, 400);
    });
```

```
}
});
```

Using Templates Properly

Loops and Conditions

Create index.hbs file under template/production

Change index.hbs file under templates/production/index.hbs

index.hbs

```
<thead>
 >
  Dimension
  Boards
  BoardFeet
 </thead>
 {{#each model as |row|}}
  >
   {{ #link-to "production.dimension" row.DimensionID}}
      { {row.DimensionName} }
     { { /link-to } }
   { {row.BoardsSum} } 
   {{row.BoardFeetSum}}
  { { /each } }
```

Production.hbs

<h2>Production</h2>

```
{{outlet}}
```

Apply if condition

index.hbs

```
<thead>
 >
  Dimension
  Boards
  BoardFeet
 </thead>
 {{#each model as |row|}}
  >
     {{ #link-to "production.dimension" row.DimensionID}}
      { {row.DimensionName} }
     { { /link-to } }
   { {row.BoardsSum} } 
   { {row.BoardFeetSum} }
  { { /each } }
 ember install ember-truth-helpers
and restart server
ember s
```

```
<thead>
 >
  Dimension
  Boards
  BoardFeet
 </thead>
 {{#each model as |row|}}
  5) "Zero" "") ""}}">
   >
    {{ #link-to "production.dimension" row.DimensionID}}
     { {row.DimensionName} }
    { { /link-to } }
   { {row.BoardsSum} } 
   { {row.BoardFeetSum} } 
  { { /each } }
```

Negation can be mentioned with unless keyword

```
{{unless (lt row.BoardsSum 10) "Zero" ""}}
```

Apply Boolean value:

index.hbs

```
  <thead>
```

```
Dimension
  Boards
  BoardFeet
  {{fa-icon "cogs"}}
 </thead>
 {{#each model as |row|}}
  5) "Zero" "") ""}}">
    >
     {{#link-to "production.dimension" row.DimensionID}}
       { {row.DimensionName} }
     { { /link-to } }
    { {row.BoardsSum} } 
    { {row.BoardFeetSum} }
    <input type="checkbox" disabled={{eq row.BoardsSum}
0 } >
  { { / each } }
 Named Arguments:
For number formatting use below add-ons
ember install ember-cli-accounting
ember s \rightarrow to restart
index.hbs
<thead>
 \langle tr \rangle
  Dimension
  Boards
  BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 {{#each model as |row|}}
```

```
5) "Zero" "") ""}}">
    >
      {{ #link-to "production.dimension" row.DimensionID}}
        { {row.DimensionName} }
      { { /link-to } }
    { {row.BoardsSum} }
    { {format-number row.BoardFeetSum
<input type="checkbox" disabled={{eq row.BoardsSum
0 } >
   { { / each } }
 Create a Helper:
ember g helper row-class
ember s
you will be getting row-class.js under helpers/row-class.js
do the below changes
row-class.is
import Ember from 'ember';
export function rowClass(params/*, hash*/) {
 if (params[0]) {
   var row = params[0],
    class names = [];
   if (row.Boards === 0 || row.BoardsSum === 0) {
    class names.push("zero");
   //other conditions
   return class names.join(" ");
```

```
return '';
}
export default Ember.Helper.helper(rowClass);
```

```
<thead>
 <tr>
  Dimension
  Boards
  BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 {{#each model as |row|}}
  >
     {{ #link-to "production.dimension" row.DimensionID}}
      { {row.DimensionName} }
     { { /link-to } }
   { {row.BoardsSum} } 
    { {format-number row.BoardFeetSum
<input type="checkbox" disabled={{eq row.BoardsSum}}</pre>
0 } >
  { { /each } }
```

Debugging

log and debugger

```
<thead>
 >
  Dimension
  Boards
  BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 {{#each model as |row|}}
  {{#link-to "production.dimension" row.DimensionID}}
       { {row.DimensionName.length} }
     { { /link-to } }
    { {row.BoardsSum} } 
    { {format-number row.BoardFeetSum
precision=2} 
    <input type="checkbox" disabled={{eq row.BoardsSum}}</pre>
0 } >
  { { / each } }
```

Add log

```
  <thead>

    > Dimension
    Boards
    BoardFeet
    {fa-icon "cogs"}}

    <thead>

    {{#each model as |row|}}
```

```
<td>
     {{ #link-to "production.dimension" row.DimensionID}}
       { {log row.DimensioName} }
       {{log row.DimensioName.length}}
     {{/link-to}}
    { {row.BoardsSum} }
    { format-number row.BoardFeetSum
<input type="checkbox" disabled={ {eq row.BoardsSum}</pre>
0 } >
  { { /each } }
```

Add debugger

It will add break point

```
<thead>
 >
  Dimension
  Boards
  BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 {{#each model as |row|}}
  >
     {{ #link-to "production.dimension" row.DimensionID}}
             { {log row.DimensioName.length} }
     { { / link-to } }
     { {debugger} }
    { {row.BoardsSum} }
    { format-number row.BoardFeetSum
precision=2} 
    <input type="checkbox" disabled={ {eq row.BoardsSum
0 } >
```

```
{{/each}}
```

Use below in console:

- 1. row
- 2. get("row")
- 3. get("row").DimensionName

```
When you click dimension it will move to details.
Update routes→production→dimension.js
dimension.js
import Ember from 'ember';
export default Ember.Route.extend({
 model(params) {
    //return
Ember. $.getJSON('/data/production.json'...).then(...);
    return this.modelFor('production')
      .findBy('DimensionID', parseInt(params.dimension id));
});
Ember.object
Add computed property as well
ember g model production
update model/production.js
production.js
import Ember from 'ember';
export default Ember.Object.extend({
 boards: Ember.computed('BoardsSum', function() {
   return this.get('BoardsSum');
 boardfeet: Ember.computed.alias('BoardFeetSum'),
volume: Ember.computed('NominalLength', 'NominalWidth',
'NominalThickness', function() {
    return this.get('NominalLength') * 12 *
this.get('NominalWidth') * this.get('NominalThickness');
})
});
update routes/production.js
production.js
```

```
import Ember from 'ember';
const Promise = Ember.RSVP.Promise;
import Production from 'loopyapp/models/production';
export default Ember.Route.extend({
 model(params) {
    // return {
        "ProductName": "Ponderosa",
        "DimensionName": "1\" X 4\" X 14\",
    // "BoardsSum": 20,
    // "BoardFeetSum": 10000
    // }
    // return
Ember. $.getJSON('/data/production.json?start=${params.start}&end
=${params.end}`);
    return new Promise(function(resolve) {
      setTimeout(function() {
Ember.$.getJSON(`/data/production.json?starts at=${params.start}
&ends_at=${params.end}`, function(data) {
          let records = [];
          data.forEach(function(item) {
            records.push( Production.create(item) );
          });
          resolve(records);
      });
      }, 400);
    });
});
Create controller
ember g controller production/index
```

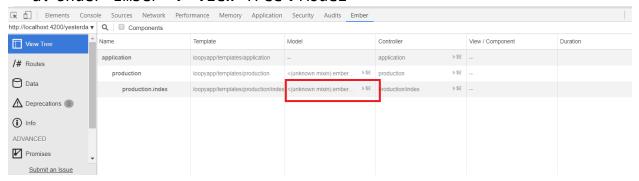
update controller/production/index.js

index.js

```
import Ember from 'ember';
export default Ember.Controller.extend({
```

```
// total_boards: Ember.computed('model.@each.boards',
function() {
    // return this.get('model').reduce(function(prev, row)) {
        return prev + parseFloat(row.get('boards'));
        // }, 0);
        // }),
    boards: Ember.computed.mapBy('model', 'boards'),
        total_boards: Ember.computed.sum('boards'),
        max_boards: Ember.computed.max('boards'),
        boardfeets: Ember.computed.mapBy('model', 'boardfeet'),
        total_boardfeet: Ember.computed.sum('boardfeets'),
        max_boardfeet: Ember.computed.max('boardfeets')
});
```

- 1. First work with commented statements
- 2. Go to chrome and open inspector
 - a. Under Ember → View Tree→Model



- 3. Select \$E under model → production.index as highlighted above.
- 4. In the console enter below commands

```
$E[0]
$E[0].get('boards')
$E[0].set('boards',5)
```

5. This will not update the total, now enable the highlighted code. Now you can see total gets changed.

Reusable components

ember g component table-production

1. Go to template→production→ index.hbs

Replace the code as

index.hbs

```
{{table-production model=model}}
```

2. update template→ component→ table-production.hbs file as
follows

table-production.hbs

```
<thead>
 Dimension
  Boards
  BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 All Dimensions
  {td>{{total boards}}
  {{format-number total boardfeet precision=2}}
  {{#each model as |row|}}
  \langle td \rangle
     {{ #link-to "production.dimension" row.DimensionID}}
      { {row.DimensionName} }
     { { /link-to } }
    { {row.boards}}
    {{format-number row.boardfeet
precision=2} 
    <input type="checkbox" disabled={{eq row.boards}
0 } >
```

```
{{/each}}
```

Note: Now if you check the browser Total will not appear

Production

Dimension	Roards	BoardFeet
All Dimensions		0.00
1 14 10	13	26.00
<u>1" X 4" X 8"</u>	14	37-33
<u>1" X 4" X 10'</u>	10	33.33
<u>1" X 4" X 12'</u>	12	48.00
<u>1" X 4" X 14'</u>	8	37-33
<u>1" X 4" X 16'</u>	17	90.67
<u>1" X 6" X 6'</u>	6	18.00
1" X 6" X 8'	25	100.00

3. Comment the computed property from controller Controller→ production→ index.js

index.js

```
import Ember from 'ember';

export default Ember.Controller.extend({
    // total_boards: Ember.computed('model.@each.boards',
    function() {
        // return this.get('model').reduce(function(prev, row)) {
            // return prev + parseFloat(row.get('boards'));
        // }, 0);
        // }),

/* boards: Ember.computed.mapBy('model', 'boards'),
        total_boards: Ember.computed.sum('boards'),
        boardfeets: Ember.computed.max('boards'),
        total_boardfeet: Ember.computed.sum('boardfeets'),
        max_boardfeet: Ember.computed.sum('boardfeets'),
        max_boardfeet: Ember.computed.max('boardfeets')*/
});
```

4. Move that code to component → table-production.js

table-production.js

```
import Ember from 'ember';

export default Ember.Component.extend({
  boards: Ember.computed.mapBy('model', 'boards'),
  total_boards: Ember.computed.sum('boards'),
  max_boards: Ember.computed.max('boards'),
  boardfeets: Ember.computed.mapBy('model', 'boardfeet'),
  total_boardfeet: Ember.computed.sum('boardfeets'),
  max_boardfeet: Ember.computed.max('boardfeets'))
});
```

Changing the tag Name

Component → table-production.js

table-production.js

```
import Ember from 'ember';

export default Ember.Component.extend({
  tagName: 'table',
  classNames: ['table'],
  boards: Ember.computed.mapBy('model', 'boards'),
  total_boards: Ember.computed.sum('boards'),
  max_boards: Ember.computed.max('boards'),
  boardfeets: Ember.computed.mapBy('model', 'boardfeet'),
  total_boardfeet: Ember.computed.sum('boardfeets'),
  max_boardfeet: Ember.computed.max('boardfeets')
});
```

templates \rightarrow components \rightarrow table-production.hbs

table-production.hbs

```
<!--<table class="table">-->
<thead>

     > Dimension
     > Boards
     > Compared to the compared
```

```
BoardFeet
  { fa-icon "cogs" } } 
 </thead>
 All Dimensions
  {td>{{total boards}}
  { format-number total boardfeet precision=2 } } 
  {{#each model as |row|}}
  {{ #link-to "production.dimension" row.DimensionID}}
      { {row.DimensionName} }
     { { /link-to } }
   { {row.boards} }
   {{format-number row.boardfeet
<input type="checkbox" disabled={{eq row.boards}
0 } >
  { { /each } }
 <!--
-->
```

Handling a block

Create another component ember g component table-th

1. Components → table-th.js

table-th.js

```
import Ember from 'ember';
export default Ember.Component.extend({
  tagName: 'th'
});
```

2. templates → components → table-th.hbs

table-th.hbs

```
{{#if hasBlock}}
{{yield}}
{{else}}
{{name}}
{{/if}}
```

3. templates→components→table-production.hbs

table-production.hbs

```
<!--<table class="table">-->
 <thead>
  {{table-th name="Dimension"}}
   {{table-th name="Boards"}}
   {{table-th name="BoardFeet"}}
  {{#table-th}}{{fa-icon "cogs"}}{{/table-th}}
 </thead>
 All Dimensions
   {td>{{total boards}}
   {{format-number total boardfeet precision=2}}
   {{#each model as |row|}}
   {{#link-to "production.dimension" row.DimensionID}}
       { {row.DimensionName } }
      { { /link-to } }
    { {row.boards}} 
    { {format-number row.boardfeet
<input type="checkbox" disabled={{eq row.boards}
0 } >
   { { /each } }
 <!--
-->
```