


Crazy Clown Airlines Fly (return) to fifteen transatlantic destinations once a month from the Coonagh airfield in Limerick. Each route is served by a Boeing 787 Dreamliner, which can seat 335 passengers. The passenger and route information is stored within a table called passengers in a database called routes. I have provided a SQL script for this database.

The structure of the passengers table is as follows:

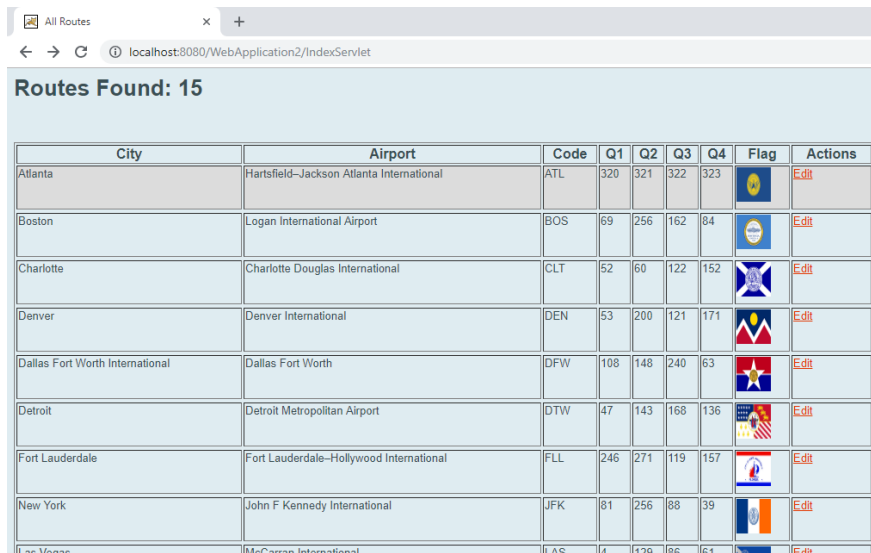
#	Name	Type
1	Code 	varchar(3)
2	City	text
3	Airport	text
4	Q1	int(11)
5	Q2	int(11)
6	Q3	int(11)
7	Q4	int(11)

The following is a snapshot of the data within the table:










Code	City	Airport	Q1	Q2	Q3	Q4
ATL	Atlanta	Hartsfield Jackson Atlanta International	208	183	118	313
BOS	Boston	Logan International Airport	69	256	162	84
CLT	Charlotte	Charlotte Douglas International	52	60	122	152
DEN	Denver	Denver International	53	200	121	171
DFD	Dallas Fort Worth International	Dallas Fort Worth	108	148	240	63
DTW	Detroit	Detroit Metropolitan Airport	47	143	168	136
FLL	Fort Lauderdale	Fort Lauderdale–Hollywood International	246	271	119	157
JFK	New York	John F Kennedy International	81	256	88	39
LAS	Las Vegas	McCarran International	4	129	86	61
LAX	Los Angeles	Los Angeles International	113	212	163	187
MSP	Minneapolis–Saint Paul	Minneapolis–Saint Paul International	215	3	224	82
ORD	Chicago	Chicago O'Hare International	64	48	294	182
PHX	Phoenix	Phoenix Sky Harbor International	13	232	126	328
SEA	Seattle	Seattle–Tacoma International	204	12	85	88
SFO	San Francisco	San Francisco International	312	31	47	126

To Do

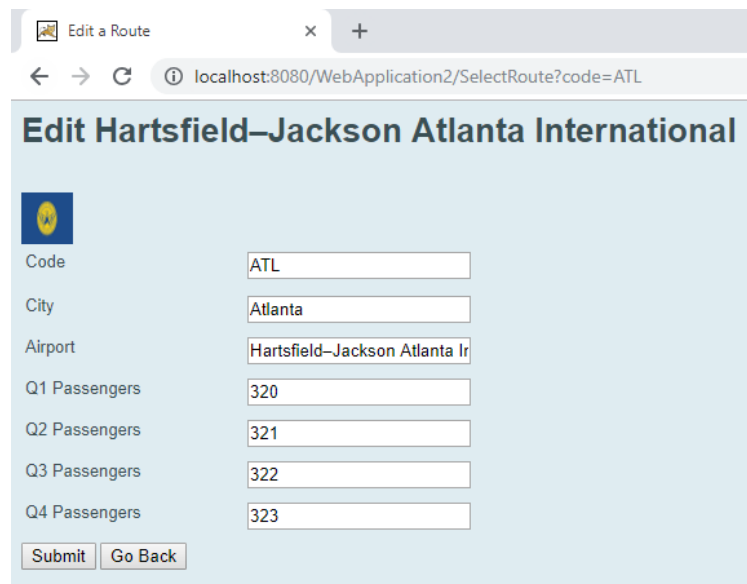
1. Display the information from the database table neatly in a HTML table within the browser (this is to be the home page for the application). You must display the flag provided for each city/destination when outputting this information. As well as that, each row in your HTML table must include an "Edit Link". The first and last row of the HTML table must be highlighted in grey (#DCDCDC).




Routes Found: 15

City	Airport	Code	Q1	Q2	Q3	Q4	Flag	Actions
Atlanta	Hartsfield–Jackson Atlanta International	ATL	320	321	322	323		Edit
Boston	Logan International Airport	BOS	69	256	162	84		Edit
Charlotte	Charlotte Douglas International	CLT	52	60	122	152		Edit
Denver	Denver International	DEN	53	200	121	171		Edit
Dallas Fort Worth International	Dallas Fort Worth	DFW	108	148	240	63		Edit
Detroit	Detroit Metropolitan Airport	DTW	47	143	168	136		Edit
Fort Lauderdale	Fort Lauderdale–Hollywood International	FLL	246	271	119	157		Edit
New York	John F Kennedy International	JFK	81	256	88	39		Edit
Las Vegas	McCarran International	LAS	14	129	186	161		Edit

2. Once a particular route has been selected for editing (i.e. by clicking on its associated edit link), a form is to be displayed. The form is to contain prepopulated information about the selected route.



Edit Hartsfield–Jackson Atlanta International



Code

ATL

City

Atlanta

Airport

Hartsfield–Jackson Atlanta International

Q1 Passengers

320

Q2 Passengers

321

Q3 Passengers

322

Q4 Passengers

323

Submit

Go Back

The user is then permitted to edit the displayed information (assume that they cannot edit the flag/image for a particular route or its three letter airport code).

Edit Hartsfield–Jackson Atlanta International

Code: ATL

City: Atlantis

Airport: Man from Atlantis Airport

Q1 Passengers: 330

Q2 Passengers: 331

Q3 Passengers: 332

Q4 Passengers: 333

[Submit](#) [Go Back](#)

Once the user submits the form, any edits made should be made persistent on the database. The user should then be returned to the applications home page.

Routes Found: 15

City	Airport	Code	Q1	Q2	Q3	Q4	Flag	Actions
Atlanta	Man from Atlantis Airport	ATL	330	331	332	333		Edit
Boston	Logan International Airport	BOS	69	256	162	84		Edit
Charlotte	Charlotte Douglas International	CLT	52	60	122	152		Edit
Denver	Denver International	DEN	53	200	121	171		Edit
Dallas Fort Worth International	Dallas Fort Worth	DFW	108	148	240	63		Edit
Detroit	Detroit Metropolitan Airport	DTW	47	143	168	136		Edit
Fort Lauderdale	Fort Lauderdale–Hollywood International	FLL	246	271	119	157		Edit
New York	John F Kennedy International	JFK	81	256	88	39		Edit
Las Vegas	McCarran International	LAS	14	129	86	161		Edit

3. You must display the number of routes returned from the database at the top of your homepage.
4. You must use a CSS style sheet across all your JSP's – consider using the one I have provided.

Note

1. Your solution must be 100% MVC compliant.
2. You must use JPA.
3. You must use Tomcat as your target Server.
4. Only submissions from students who are in class will be accepted.
5. The following is a **guideline** as to how marks will be distributed for this assignment.

Index Page (55%)	
Produce information in tabular form	35%
Count of routes appearing	5%
With image	10%
First/Last Cells Highlighted	5%
Edit a Record (35%)	
Form appears prepopulated	15%
Edit made persistent	15%
Return to Index page	5%
Misc (10%)	
Application Config	5%
CSS Linked	2%
Error Handling	3%
TOTAL	100%