

Lab 9 Exercise 1

- Queries to a remote database management system have generated results that are provided to you in the form of text files.
- One query about hotels has generated the file *hotels.data*
- One query about restaurants has generated the file *restaurants.data*

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- The files are structured as follows:
 - Each line in the file has the same number of fields. These fields are separated by “;”
 - The first line of the file gives the name of the fields
- hotels.data has the following format



```
City;Hotel;Reviews;Price per night;URL;Description;Phone;Address
```

- restaurants.data has the following format

```
City;Restaurant;Reviews;Average Dish Price;Image;URL;Description;Phone;Address
```

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- In both files, the field “City” is coded as follows:
 - YEG: Edmonton
 - YYC: Calgary
 - YVR: Vancouver

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- Write a python program that asks the user the name of an input file and generate an html file with the same name as the input file but html as an extension.
- For example, if the input file is **hotels.data** the generated web page should be **hotels.html**

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- The output web page should have the title “Query Results” and be organized by city
- There would be a table of data for each present city.
- Only the four first fields in the input data are presented in the table (but not city code)
- The table should be sorted based on the price (4rth field)
- The last column of the table titled “Details” should have an anchor “ More...” that links to a secondary page.

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file:///C:/Users/zaiane/Desktop/hotels.html

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Query Results

From City: Calgary

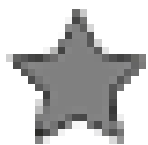
Hotel	Reviews	Price per night	Details
Ramada Calgary Downtown	★★★★★(2.6)	\$98	More...
Lakeview Signature Inn Calgary	★★★★★(4.5)	\$116	More...
The Westin Calgary	★★★★★(4.2)	\$201	More...
Hyatt Regency Calgary	★★★★★(4.0)	\$302	More...

From City: Edmonton

Hotel	Reviews	Price per night	Details
Best Western Cedar Park Inn	★★★★★(2.8)	\$97	More...
Ramada Edmonton Hotel & Conference Centre	★★★★★(2.8)	\$102	More...
Sawridge Inn Edmonton South	★★★★★(3.5)	\$108	More...
Fantasyland Hotel	★★★★★(3.2)	\$178	More...
The Westin Edmonton	★★★★★(3.8)	\$229	More...
The Fairmont Hotel Macdonald	★★★★★(4.0)	\$231	More...

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- The column “Reviews” should have the value from that field in the input file preceded by a pictorial representation with stars.
- You should always have 5 stars.
- You should have as many highlighted stars as the integer value of *Reviews*.
- You should have a half highlighted star if the value of Reviews has a decimal part
- All other missing stars out of 5 need to be dimmed
- The stars are images to be rendered 20 by 20 pixels



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- The secondary page contains information about a specific hotel or restaurant.
- It should contain all the information as well as the image referred to in the input file. All images are provided.
- Display of the information as per the example below.
- Note that the URL in the file do not contain “http://”. All URLs should be prefixed by the http:// string before rendering.

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file:///C:/Users/zaiane/Desktop/hotels-YEG-6.html

Query Results

From City: Edmonton



Stately Downtown Hotel located 30 km from international airport.

- Hotel: The Fairmont Hotel Macdonald
- Reviews: ★★★★★(4.0)
- Price per night:\$231
- URL: <http://www.fairmont.com>
- Phone: 780 424 5181
- Address: 10065 100 St NW, Edmonton, AB T5J 0N6, Canada