

Bonus(optional) Assignment

(15% Bonus/Extra points toward the Final Grade)

You will Not lose points if you do NOT submit this assignment

Due Date: 6/6/16 by 11:59pm

Deliverable:

- Extend Assignment #2 or Assignment #3 and use MySQL to implement the functionalities listed below.
- Capture ALL screen-shots of your output and save them in a file called output.pdf
- All source code and byte code shall be submitted.
- Readme text file that illustrates how to compile/install/run your application
- Post your homework as a single zipped file on D2L with the name "BonusHW_YourLastName,FirstName"

Important Notes:

- NO IDE to be used in any shape/form in the implementation of this assignment
- NO hard-coding for any of the analytical queries in your implementation; it is a simple mix-and-match selection of the review fields that can be used in the queries to produce the results

Required Features/Capabilities:

- Extend Assignment #2 to add **Trending & Data Analytics** link on the left navigation bar that the user can use to see trends for sold products and can perform different analytics tasks on the product reviews submitted by different customers.
- Once the user clicks the **Trending & Data Analytics**, the user must be presented with different input and selection fields to perform different queries and data analytics tasks
- **Trending & Data Analytics** must allow the user to perform different analytical queries. The following are queries that your implementation must be able to answer (Please do NOT hard-code those queries in your source):
 1. Print the list of all products and their ratings
 2. Print a list of reviews where rating greater than 3
 3. Get a list of products that got review rating 5 and price more than thousand
 4. Print a list of how many reviews for every product
 5. Get the list of reviews for shoppers in Chicago
 6. Find highest price product reviewed/sold in every city
 7. Find highest price product reviewed/sold in every zip-code
 8. Get the top 5 list of liked products for every city
 9. Print a list of reviews grouped by City
 10. Print a list of reviews grouped by RetailerName
 11. Get the total number of products reviewed and got Rating 5 in Every City
 12. Provide a **Trending** button that shows a list of most liked product in every city
 13. Print the median product prices per city
 14. Get top 5 list of most liked and expensive products sorted by retailer name for every city
 15. Get the top 5 list of most Disliked products sorted by retailer name for every city
 16. Get the top 5 list of most Disliked products sorted by retailer name for every zip-code
 17. Get the top 2 list of zip-codes where highest number of products got review rating 5
 18. Get a list of reviews where reviewer age greater than 50 and the list is sorted by age in every city
 19. Get the top 5 list of most liked products sorted by manufacturer name for every city
 20. Search reviews text for keywords (pattern-matching) and print the list of reviews that have the matched keywords.

For example, print the list of reviews that have “ XBOX
overheat” keywords in the review text

No hard-coded queries will be accepted. Every requirement listed above must be demonstrated and documented by a screen-shot; so at least 20 screen-shots must be submitted in the PDF document.

For every requirement, state clearly whether it has been implemented or not. There is NO partial credit for these requirements in this assignment.

Product Review Form:

The product review Form has the following fields:

1. ProductModelName: XBOX 360
2. ProductCategory: Gaming Console
3. ProductPrice: \$499
4. RetailerName: GameSpeed
5. RetailerZip: 60616
6. RetailerCity: Chicago
7. RetailerState: IL
8. ProductOnSale: Yes
9. ManufacturerName: LG
10. ManufacturerRebate: Yes
11. UserID: whksa8
12. UserAge: 24
13. UserGender: Male
14. UserOccupation: accountant
15. ReviewRating: 4
16. ReviewDate: 12/15/2013
17. ReviewText: It has excellent clarity and motion refresh rate for Batman Game, however, it overheats after 2 hours of use

Consider the following Layout/Form in your design

Data Analytics

Simple Search			
<input checked="" type="checkbox"/> Select	Product Name:	All Products ▾	
<input type="checkbox"/> Select	Product Category:	Gaming Console ▾	
<input type="checkbox"/> Select	Product Price:	0 ▴ ▾	<input checked="" type="radio"/> Equals <input type="radio"/> Greater Than <input type="radio"/> Less Than
<input type="checkbox"/> Select	Retailer:		
<input type="checkbox"/> Select	Retailer Zip code:	0 ▴ ▾	
<input type="checkbox"/> Select	Retailer City:		
<input type="checkbox"/> Select	Retailer State:		
<input type="checkbox"/> Select	Product On Sale:	<input type="radio"/> Yes <input type="radio"/> No	
<input type="checkbox"/> Select	Manufacturer Name:	Microsoft ▾	
<input type="checkbox"/> Select	Manufacturer Rebate:	<input type="radio"/> Yes <input type="radio"/> No	
<input type="checkbox"/> Select	User Id:		
<input type="checkbox"/> Select	Age:	0 ▴ ▾	<input checked="" type="radio"/> Equals <input type="radio"/> Greater Than <input type="radio"/> Less Than
<input type="checkbox"/> Select	Gender:	<input type="radio"/> Male <input type="radio"/> Female	
<input type="checkbox"/> Select	Occupation:		
<input type="checkbox"/> Select	Review Rating:	1 ▾	<input checked="" type="radio"/> Equals <input type="radio"/> Greater Than <input type="radio"/> Less Than
<input type="checkbox"/> Select	Date:		
Return Top:	All ▾	Return Latest:	All ▾