In-Class Assessment 2 - OMST - WEIGHT 10 %

LINQ and LinqPad - Read the entire instructions before beginning your work

This is an **Open Book** assessment; you are allowed to reference your notes and other online resources.

A You are **not allowed** to seek the assistance of others or in any way collaborate with others in completing this assessment; doing so may subject you to academic discipline.

Database

The physical database can be installed from either the .bak file or the .bakpac file included in the starter kit.

About OMST

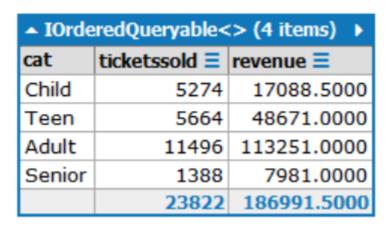
Off Main-Street Theatre is a privately owned theatre located near Down-Town.

Requirements

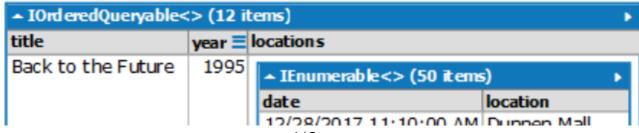
In this assessment you are required to implement simple Linq queries for the supplied database. The ERD of the database is at the end of this document. Place each answer in a **separate** LinqPad Query.

The supplied images for each question indicate the needed data to be reported and what your results should look like in terms of structure; detailed values may vary.

1. **(Marks:3)** Show the number of tickets sold and total revenue for each ticket category. Show only the categories that have ticket sales.

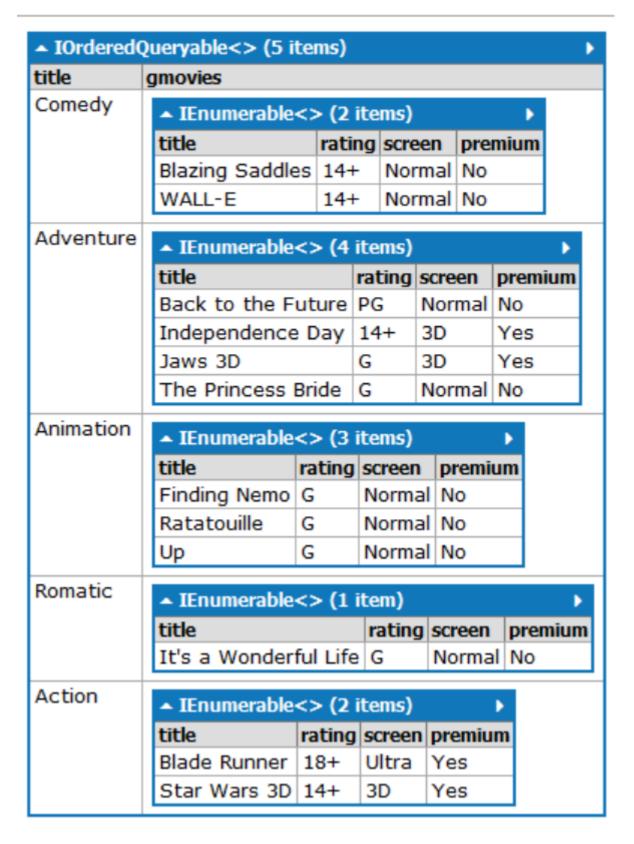


2. **(Marks:4)** List all movies showing their title and release year. Show the start date and theatre location. Order the movies by title and the show locations by datetime.



	- 11	12/20/201/ 11:10:00 AIT	Duriner man	
	- 1	12/28/2017 11:10:00 AM	Gateway Place	
	- 1	12/28/2017 11:10:00 AM	Northern Center	
	- 1	12/28/2017 1:30:00 PM	Dunnen Mall	
	- 1	12/28/2017 1:30:00 PM	Gateway Place	
	- 1	12/28/2017 1:30:00 PM	Northern Center	
		12/28/2017 2:00:00 PM	Dunnen Mall	
		12/28/2017 2:00:00 PM	Northern Center	
		12/28/2017 4:30:00 PM	Gateway Place	
		12/28/2017 7:00:00 PM	Gateway Place	
		12/29/2017 11:10:00 AM	Dunnen Mall	
	- 1	12/29/2017 11:10:00 AM	·	
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		1/1/2018 2:00:00 PM	them Center	
		1/1/2018 4:30:00 PM	Gateway Place	
		1/1/2018 7:00:00 PM	Gateway Place	
Blade Runner	1982	▲ IEnumerable<> (10 iten	▲ IEnumerable<> (10 items)	
		date	location	
		12/28/2017 4:00:00 PM	Gateway Place	
		12/28/2017 7:00:00 PM	Gateway Place	
		12/29/2017 4:00:00 PM	Gateway Place	
		12/29/2017 7:00:00 PM	Gateway Place	
		12/30/2017 4:00:00 PM	Gateway Place	
		12/30/2017 7:00:00 PM	Gateway Place	
		12/31/2017 4:00:00 PM	Gateway Place	
		12/31/2017 7:00:00 PM	Gateway Place	
		1/1/2018 4:00:00 PM	Gateway Place	
		1/1/2018 7:00:00 PM	Gateway Place	
Blazing Saddles	1974	. IEnumouphle <> /20 item	or) .	
		▲ IEnumerable<> (30 iten		
			location	
		12/28/2017 11:10:00 AN	Gateway Place	

3. **(Marks:4)** Create a list showing movies by Genre description. For each genre show the movie title, rating, required screen type and if it is a premium ticket movie. Order the movies by title.



4. **(Marks:4)** Create a list showing the daily revenues for each movie on a particular date by location; filter on Year, Month and Day portions of the DateTime field. Group report by location, then by movie. Use the date of Dec 31, 2017 for testing.

→ IOrderedQueryable<> (23 items)				
location	movie	revenue =		
Dunnen Mall	Back to the Future	1176.0000		
Dunnen Mall	Blazing Saddles	1001.7500		
Dunnen Mall	Finding Nemo	2582.5000		
Dunnen Mall	Independence Day	2276.0000		
Dunnen Mall	Jaws 3D	3010.7500		
Dunnen Mall	Ratatouille	1685.2500		
Dunnen Mall	Up	572.0000		
Dunnen Mall	WALL-E	1202.2500		
Gateway Place	Back to the Future	4130.0000		
Gateway Place	Blade Runner	1836.5000		
Gateway Place	Blazing Saddles	1176.2500		
Gateway Place	Independence Day	2274.0000		
Gateway Place	Jaws 3D	1699.2500		
Gateway Place	Star Wars 3D	2066.0000		
Gateway Place	The Princess Bride	1837.5000		
Northern Center	Back to the Future	2283.0000		
Northern Center	Blazing Saddles	1286.5000		
Northern Center	Finding Nemo	2040.7500		
Northern Center	Independence Day	2386.0000		
Northern Center	Jaws 3D	3524.7500		
Northern Center	Ratatouille	1718.7500		
Northern Center	Up	494.0000		
Northern Center	WALL-E	728.2500		
		42988.0000		

