**WEEK 3 Objectives:**

* JOINS
* Group By
* Sub-Queries

**TASK 1: First, watch the following 21 Kudveknat SQL Vidoes.**

**Joins related concepts covered:**

1. [Basic Joins](http://csharp-video-tutorials.blogspot.com/2012/08/joins-in-sql-server-part-12.html)
2. [Advanced Joins](http://csharp-video-tutorials.blogspot.com/2012/08/advanced-joins-part-13.html)
3. [Self join](http://csharp-video-tutorials.blogspot.com/2012/08/self-join-in-sql-server-part-14.html)
4. [What to choose for performance - SubQuery or Joins](http://csharp-video-tutorials.blogspot.com/2013/01/what-to-choose-for-performance.html)
5. [Cursors in sql server](http://csharp-video-tutorials.blogspot.com/2013/01/cursors-in-sql-server-part-63.html)
6. [Replacing cursors using joins](http://csharp-video-tutorials.blogspot.com/2013/01/replacing-cursors-using-joins-in-sql.html)
7. [Normalization & First Normal Form](http://csharp-video-tutorials.blogspot.com/2012/09/database-normalization-part-52.html)
8. [2NF and 3NF](http://csharp-video-tutorials.blogspot.com/2012/09/second-normal-form-and-third-normal.html)
9. [Merge in SQL Server](http://csharp-video-tutorials.blogspot.com/2014/09/part-69-merge-in-sql-server.html)
10. [Pivot Operator](http://csharp-video-tutorials.blogspot.com/2012/10/pivot-operator-in-sql-server-part-54.html)
11. [UNPIVOT in SQL Server](http://csharp-video-tutorials.blogspot.com/2015/10/unpivot-in-sql-server.html)
12. [Reverse PIVOT table in SQL Server](http://csharp-video-tutorials.blogspot.com/2015/10/reverse-pivot-table-in-sql-server.html)
13. [Cross apply and outer apply in sql server](http://csharp-video-tutorials.blogspot.com/2015/09/cross-apply-and-outer-apply-in-sql.html)

**NOTE:** If you have difficulty understanding Kudvenkat’s YouTube videos, then I suggest you read his articles describing these videos’ material in writing. You can translate the article much easily.

Here is the link for his articles: <https://csharp-video-tutorials.blogspot.com/p/free-sql-server-video-tutorials-for.html>

**TASK # 2: Complete 14 HW Exercise questions (listed in a sperate Week3-Exercises.sql file attachment) and send Aslon the script that contains your answers.**