



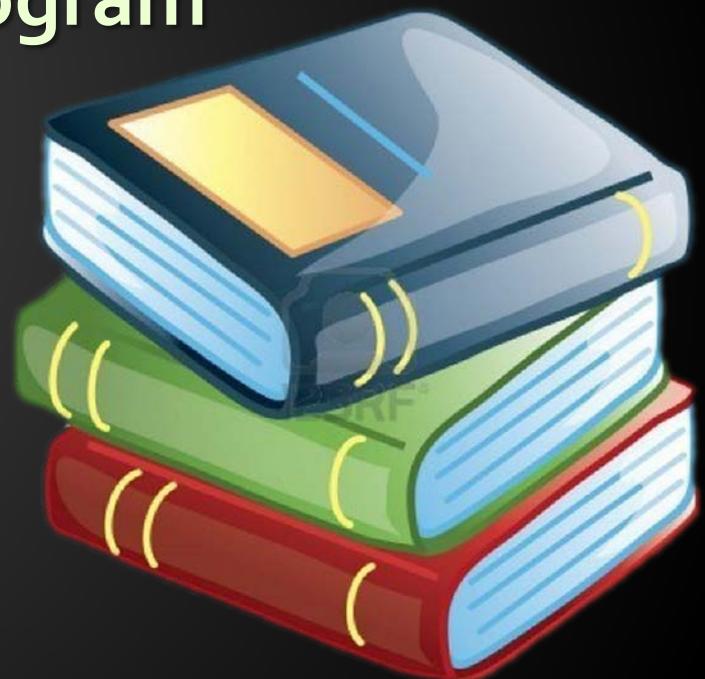
Databases for Developers

Database Course Program, Evaluation, Exams



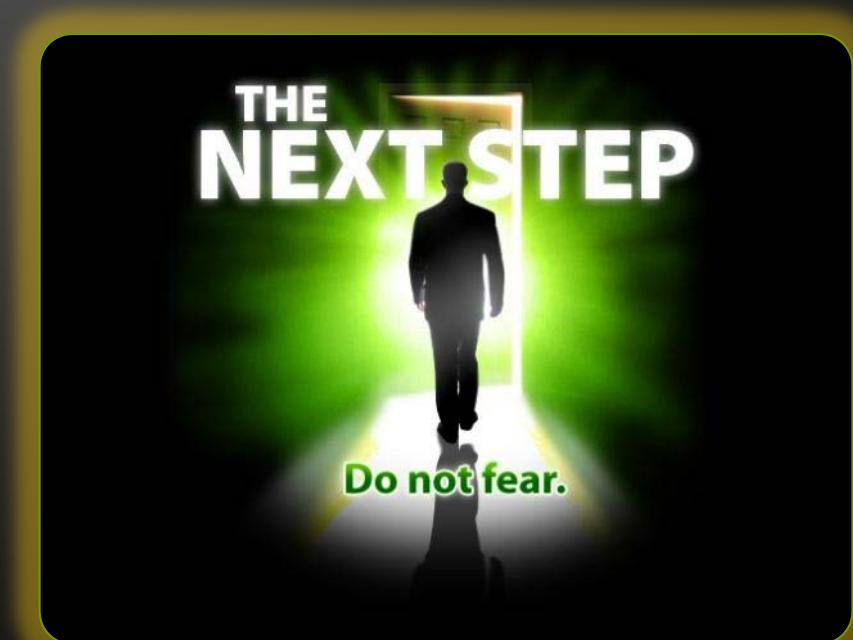
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Databases for Developers

Coming To The Next Module



What's Coming Next?

- ◆ Two courses at the same time
 - ◆ Databases for Developers Course
 - ◆ Lectures every working day in the week
 - ◆ From 10:30 to 18:00
 - ◆ Practical exam after 3 weeks
 - ◆ Data structures and algorithms
 - ◆ Lectures 3 times a week
 - ◆ Every Monday, Wednesday and Friday from 18:00 to 22:00
 - ◆ Practical exam after 4 weeks



What's Coming Next?

2013

Oct - Nov

Nov - Jan

Jan - Mar

Mar

Mar - Apr

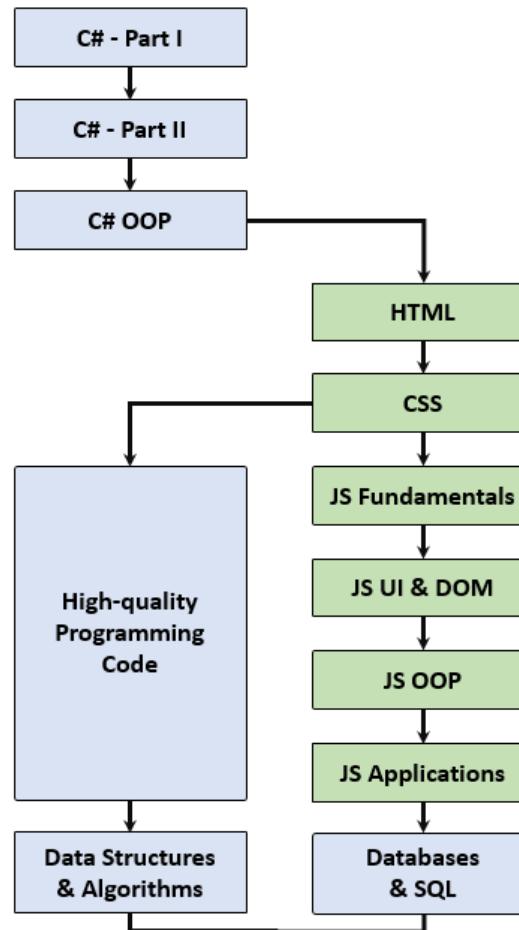
Apr - May

May - Jun

Jun - Jul

Jul

Aug



2014

Sept - Nov

Mobile Development

Web Development

QA Academy

Mobile

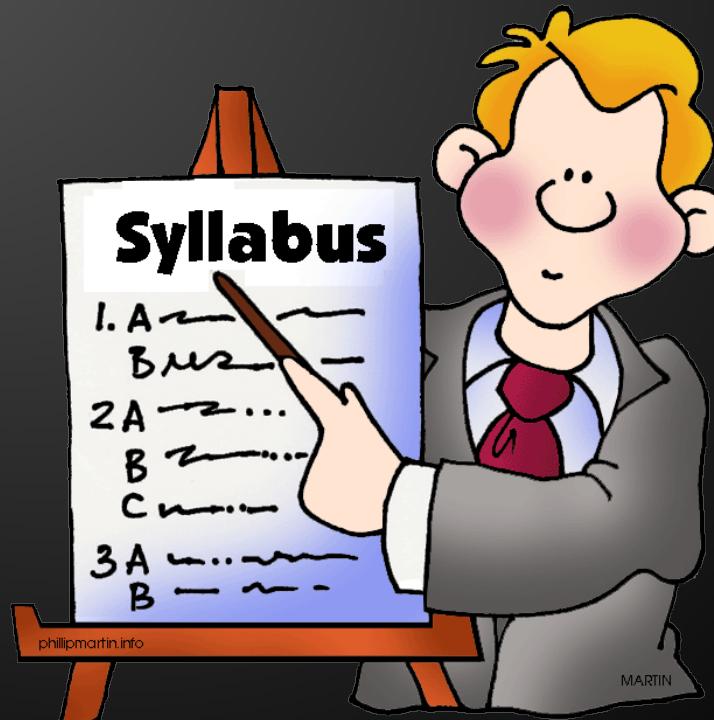
Starts	Exam at	Course
9-Sep	22-Sep	Web Services & cloud
23-Sep	30-Sep	Hydrib Apps
1-Oct	14-Oct	Android
15-Oct	28-Oct	iOS
29-Oct	11-Nov	Windows Universal

Web

Starts	Exam at	Course
9-Sep	22-Sep	Web Services & cloud
23-Sep	29-Sep	SPA Apps
30-Sep	13-Oct	End-to-end apps
14-Oct	27-Oct	ASP.NET Web Forms
28-Oct	10-Nov	ASP.NET MVC

Databases – Program

What Will We Cover in the Databases Course?



Telerik Academy

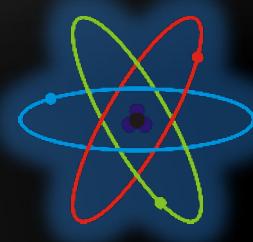
The Databases Course Program

1. Database Systems – Overview
2. SQL Server and MySQL – Introduction
3. Data Modeling and ER Diagrams
4. Intro to SQL
5. Advanced SQL
6. Transact-SQL
7. ADO.NET
8. ADO.NET Entity Framework
9. Entity Framework Performance



The Databases Course Program

10. Code First in Entity Framework



11. Database Performance

12. Database Transactions

13. NoSQL Databases

14. XML Basics

15. Processing XML in .NET



16. Databases Team Work Project

17. Exam Preparation

18. Exam



The Trainers Team



◆ Nikolay Kostov

- ◆ Team Lead, Senior Developer and Trainer @ Telerik Corp.
- ◆ Student at Sofia University
 - ◆ Computer Science
- ◆ IT and Informatics competitions contestant
- ◆ Graduate from the second season of Telerik Software Academy
- ◆ Email: [nikolay.kostov \[at\] telerik.com](mailto:nikolay.kostov[at]telerik.com)
- ◆ Blog: <http://nikolay.it>



Trainers Team (2)

◆ Doncho Minkov

- ◆ Senior Technical Trainer
@ Telerik Software Academy
- ◆ Student in Sofia University
 - ◆ Software Engineering
- ◆ Contestant in the Informatics competitions
- ◆ Graduate from the first season of
Telerik Software Academy
- ◆ Email: doncho.minkov [at] telerik.com
- ◆ Blog: <http://minkov.it>



Trainers Team (3)

◆ Ivaylo Kenov

- Technical Trainer @ Telerik Software Academy
- Graduate from the fourth season of Telerik Software Academy
- Mathematical competitions contestant
- E-mail: ivaylo.kenov [at] telerik.com
- Champion in OOP and DSA
- <http://ivaylo.bgcoder.com>



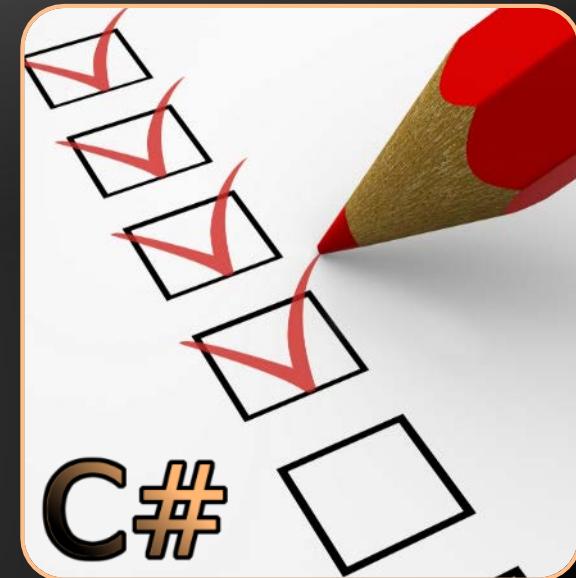
◆ Evlogi Hristov

- ◆ Technical Trainer
@ Telerik Software Academy
- ◆ Graduate from the fourth season
of Telerik Software Academy
- ◆ E-mail: evlogi.hristov [at] telerik.com



Evaluation

Thank God There Are Bonuses!



Databases – Evaluation

◆ Evaluation components

- ◆ Practical exam – 55%
 - ◆ Peer review – 10 exams
 - ◆ Teamwork – 20%
 - ◆ Homework – 10%
 - ◆ Homework evaluation – 5%
 - ◆ 3 peer reviews per homework (excellent, OK, bad)
 - ◆ Attendance in class – 10%
- ◆ Bonuses
 - ◆ Forums activity – bonus up to 5%



Pass / Excellence / Fail Criteria

- ◆ Criteria for pass / pass with excellence / fail

- ◆ Pass with excellence

- ◆ Very high exam results

- or



- ◆ High total results

- ◆ Pass

- ◆ Average total results



- ◆ Fail

- ◆ Low total results or low exam results

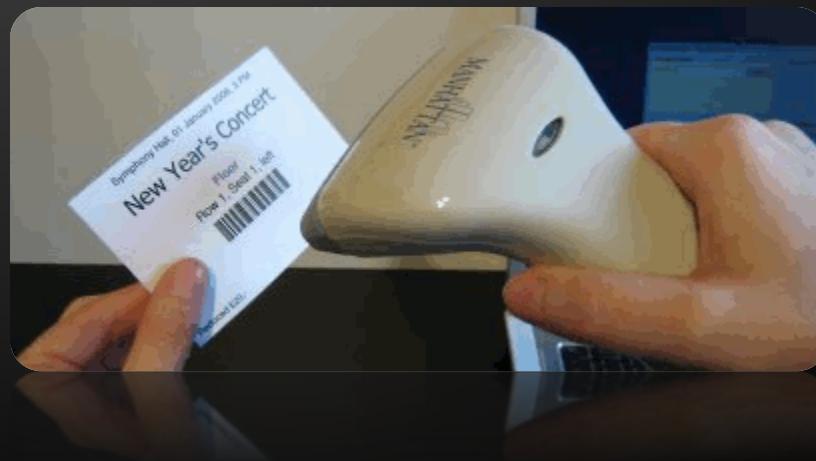


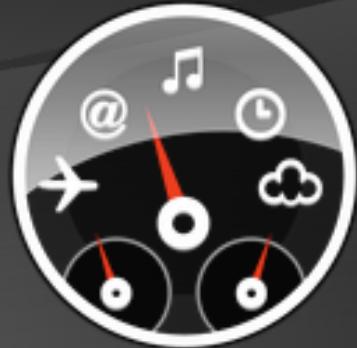
Homework Peer Reviews

- ◆ Everyone will get feedback for their homework
- ◆ Everyone will give feedback for few random homework submissions
 - ◆ Students submit homework anonymously
 - ◆ Please exclude your name from the submissions!
 - ◆ For each homework submitted
 - ◆ Students evaluate 3 random homeworks
 - ◆ From the same topic, after the deadline
 - ◆ Homework comments are not obligatory

Check Your Presence

- ◆ From now on you should check your presence on the barcode reader 2-3 times a day:
 - ◆ In the morning when lectures begin (~10:30)
 - ◆ After lunch break (~13:30)
 - ◆ When you have data structures and algorithms when the lecture starts (~18:00)



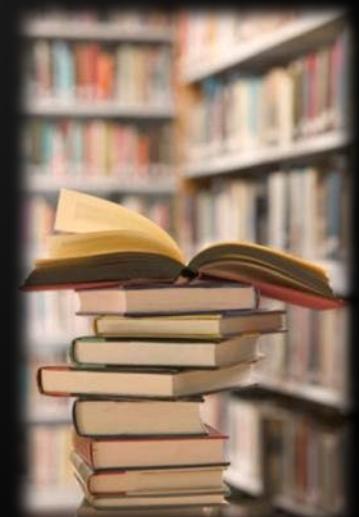


Resources

What We Need in Addition to this Course Content?



WIKIPEDIA
The Free Encyclopedia



Course Web Site & Forums

- ◆ Register for the "Telerik Academy Forums":

<http://forums.academy.telerik.com/web-development/databases>

- ◆ Discuss the course exercises with your colleagues
 - ◆ Find solutions for the exercises
 - ◆ Share source code / discuss ideas
- ◆ The databases official web site:



<http://academy.telerik.com/student-courses/software-technologies/databases/about>

Telerik Integrated Learning System (TILS)

- ◆ The Telerik Integrated Learning System (TILS)
 - ◆ www.telerikacademy.com
 - ◆ Important resource for all students
 - ◆ Homework submissions
 - ◆ Homework peer reviews
 - ◆ Presence cards with barcode
 - ◆ Reports about your results

The screenshot shows a web browser window for the Telerik Academy website. The main content area displays course information for "Бази данни - юли 2013". Key details include:

- Описане: Бази данни
- Начална дата: 08/07/2013
- Краяка дата: 25/07/2013
- Лекции за съдърж. 5
- Краен срок за записване: 23:59 часа на 14/07/2013

A green button at the bottom right says "Записвай се за онлайн участие в този курс" with an info icon.

telerikacademy.com/Courses/Courses/Details/185

Required Software

- ◆ Software needed for this course:
 - ◆ Microsoft Visual Studio 2012/2013
 - ◆ Microsoft SQL Server 2012 Developer with Service Pack 1 and Developer Tools
 - ◆ Or SQL Server 2014
 - ◆ MySQL Community Server 5.x
 - ◆ MySQL Workbench



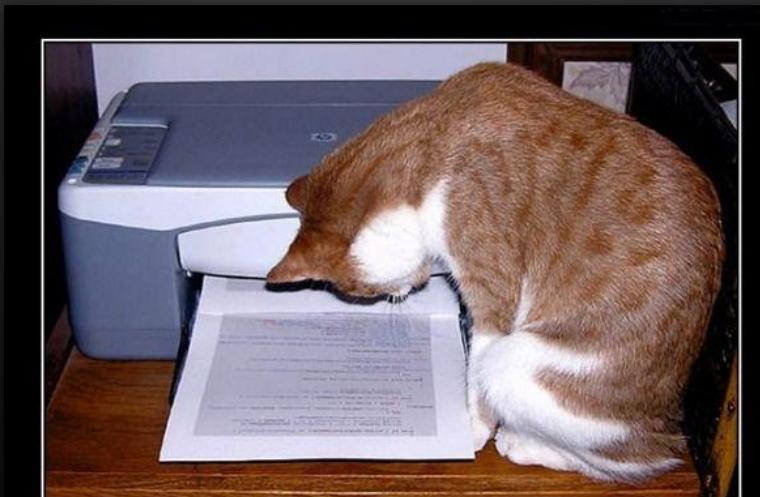
Champions from the Exams

Telerik Academy Ninja Champions



Champions: HQC

- ◆ # 1 – Djenko Penev
- ◆ # 2 – Ventsislav Georgiev
- ◆ # 3 – Alexander Dimitrov



CODE REVIEWS
An essential step to ensure code quality.



Databases: Course Introduction



Questions?



Free Trainings @ Telerik Academy

- ◆ C# Programming @ Telerik Academy

- ◆ csharpfundamentals.telerik.com



- ◆ Telerik Software Academy

- ◆ academy.telerik.com



- ◆ Telerik Academy @ Facebook

- ◆ facebook.com/TelerikAcademy



- ◆ Telerik Software Academy Forums

- ◆ forums.academy.telerik.com

