



Welcome! - DB2 9.7 Academic Training

IBM Information Management – Cloud Computing Center of Competence
IBM Canada Labs

V2011.05.20 - Test 302a

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1

Welcome to the DB2 9.7 Academic Training!

In this training you will learn about Database Fundamentals using IBM DB2, the leading IBM database server, and IBM Data Studio, a free Eclipse-based tool for database administration and development.

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2

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Course objectives

- **Give students an idea of the skills required to work as:**
 - Database designer
 - Database Administrator (DBA)
 - Database Developer
 - Database Consultant
 - Database technical support
- **Learn basic concepts of databases including SQL and XML**
- **Learn the basics of DB2 and IBM Data Studio**
- **Gain practical knowledge with the hands-on labs**

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3

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The **course objectives** of this training are for students to:

1. Get an idea of what the following jobs are all about: Database designer, Database Administrator (DBA), Database Developer, Database Consultant / Technical support
2. Learn basic concepts of databases including SQL and XML
3. Learn the basics of DB2 and IBM Data Studio, and
4. Gain practical knowledge with the hands-on labs

Course pre-requisites (recommended, not required)

- **Basic knowledge of Windows or Linux operating systems**
- **Basic knowledge of database concepts and SQL**
- **Basic knowledge of XML**
- **If taking this course in a classroom setting, completion of the db2university.com course AA001EN “DB2 Academic Training”**

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4

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Pre-requisites:

The course pre-requisites that are recommended (not necessarily required) are:

- 1) A basic knowledge of Windows or Linux operating systems
- 2) A basic knowledge of database concepts including SQL
- 3) A basic knowledge of XML
- 4) If you are taking this course in a classroom setting, completing the db2univeristy.com course “AA001EN” DB2 Academic Training prior to taking this course would be beneficial

Course materials & lab setup

- **DB2 Academic Training DVD**
 - Presentation slides
 - Videos
 - Books
 - VMWare image
 - DVD contents can be downloaded from db2university.com, course AA001EN
- **Books**
 - Getting started with DB2 Express-C (Also in softcopy in the DVD)
- **For the lab: VMWare Player installed (latest version)**
 - <http://www.vmware.com/products/player/>

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5

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The materials required for this course are:

1) A DB2 Academic Training DVD

This may have been supplied to you if you are participating in this training in a classroom setup. If not, you can download the DVD contents from db2university.com after enrolling in the course AA001EN, DB2 Academic Training. The DVD includes the presentations in PDF format, the lab instructions, videos, and the VMWare image that can be used for the hands-on labs.

2) A hardcopy of the book “Getting started with DB2 Express-C”.

This may have also been supplied to you if you are participating in this training in a classroom setup. If not a softcopy of this book and other supporting books is also included with the DVD. There is more information about this in the next slides.

For the lab setup, ensure the free VMWare player (latest version) is installed in your system. You can download the free VMware Player from the link shown. The materials in this course include the lab “1.0 - VMware Basics and Introduction.pdf” with instructions about using VMware and the image provided.

At this time we recommended you ensure you can find the presentations and labs in your computers/DVDs. And verify the VMWare image is set up correctly in your system.

Supporting free DVD for this course



Course AA001EN in www.db2university.com has a link where you can download the softcopy of this DVD (~4.5GB)

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6

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This is how the DB2 Academic Training DVD (supplied with this workshop) looks like. As mentioned earlier, if you did not receive a physical copy of this DVD, you can download its contents from db2university.com after enrolling to course AA001EN.

Supporting free books for this course

- **FREE “DB2 on Campus” books at www.ibm.com/db2/books**
 - Database Fundamentals
 - Getting started with DB2 Express-C
 - Getting started with IBM Data Studio for DB2
 - Getting started with DB2 application development



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7

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The “DB2 on Campus” book series consists of more than 20 books written by the community (Professionals, teachers, students, IBMers) from around the world. The online version of these books are free. As part of the DB2 on Campus program we have also printed some of these books, and are giving them away for free in this training (not in all cases).

All of these books are entry level books. The main topic may not necessarily be about DB2; however, if there is a chapter in the book talking about databases, it will use DB2.

For this training the books listed in this slide can be used as supporting material. The contents of these books have been used to develop these training materials: About 60% comes from the Getting started with DB2 Express-C book. 25% comes from the Database Fundamentals book, 10% from the Data Studio book, and 5% from the DB2 Application development book.

If you are interested in participating in this project to help write more books, contact Raul Chong through the DB2 on Campus Facebook group

Supporting free online courses for this course

Available at www.db2university.com

- **DB2 9.7 Academic Training**
 - Code AA001EN
 - Similar content as this material
 - Use the forum in this course for questions
- **SQL Fundamentals I**
- **DB2 Essential Training I**
- **DB2 Essential Training II**
- **DB2 Essential Training III**
- **Data Studio Essential Training I**



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8

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db2university.com is an online educational site with free and fee-based online courses. You can register to the site or use your existing Facebook/Gmail/Yahoo/ChannelDB2 user IDs to log on (uses Open ID verification).

As preparation for this training course, it's a good idea to take in advance (or during the training) these free courses which are under the DB2 on Campus category:

DB2 Essential Training I, II, III; Data Studio Essential Training I; DB2 Application Development I.

Most courses have 5 lessons consisting of videos, transcripts, exercises and an exam. The contents of these courses are related to the DB2 on Campus books.

Alternatively, you can take just this one course: “**AA001EN: DB2 9.7 Academic Certification Training**” which includes videos from all of the above courses, and uses similar presentations to the materials used in this training course. In addition, it has a mock test that may give you a good indication of how good or bad you would do in the real test 302.

Course assistance: db2university.com course forum

Course: DB2 9.7 Academic ...

www.db2university.com/courses/course/view.php?id=272

Settings

- Course administration
 - Unenrol me from AA001EN
 - Grades
- My profile settings

Technical assistance

- Course forum
- Course chat room
- DB2 Express-C forum (For DB2 technical assistance)
- DB2 online manuals

Reading materials

- Free eBook "Database Fundamentals" (Chapter 1 - 5)
- Free eBook "Getting started with DB2 Express-C" (Chapters 1, 3 - 4, 7 - 8, 10 - 11, 13 - 15)
- Free eBook "Getting started with IBM Data Studio for DB2" (Chapters 1 - 4)

Download the course material

A DVD with the course materials (videos, transcripts, books) and other useful information can be link below.

www.db2university.com/courses/mod/forum/view.php?id=7021

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9

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If you have questions while taking this training, you can use the forum that is in course AA001EN in db2university.com. As you can see, it is under the "Technical assistance" section.

DB2 online assistance: DB2 Express-C forum

Address: <http://www.ibm.com/developerworks/forums/forum.jspa?forumID=805>

IBM DB2 Express Forum

Search for: within: Go

This forum is a place to exchange ideas and share solutions with your peers in the IBM DB2 Express community. Active participation in the forum will allow all the participants to get the maximum return. All information is for community discussion and should not be considered IBM support.

This forum should only be used for topics related to DB2 Express-C. For other DB2 9 related topics, please use the [IBM DB2 9 forum](#).

Please note that the existing [DB2 UDB Express newsgroup](#) will be phased out in the near future. You are encouraged to participate in this new forum instead.

Please familiarize yourself with the [developerWorks Community Guidelines](#) before posting to the forum.

By using this forum, you agree to abide by [forum etiquette](#) and that you understand the [Terms of Use](#) governing this web site.

Post New Thread Watch Forum Watch list Forum settings Mark All Threads as Read Private Messages Help

Messages: 6,397 - Threads: 1,694 - Filter: - Pages: 113 - [1 2 3 4 5 | Next]

Threads	Author	Views	Replies	Last Post	Legend
Tips for finding answers to your questions - Version 2.0	ihakes	8,842	0	Sep 01, 2008 11:44:06 AM Last Post By: ihakes	N v
FREE videos to learn DB2 Express-C quickly	rfchong	1,531	0	Jul 15, 2008 12:00:06 PM Last Post By: rfchong	U le
FREE online DB2 Express-C 9 book Pages: [1 2]	rfchong	10,314	8	Jul 15, 2008 12:49:06 AM Last Post By: rfchong	C n A

www.ibm.com/db2/express

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10

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Should you have DB2 technical questions, feel free to post your questions in the DB2 Forums. The DB2 Express forum is monitored by members of the IBM DB2 Express-C team, and is quite popular.

Participation in forums is free, and voluntary. To post questions you need to register.

Access this forum by going to the DB2 Express-C home page at ibm.com/db2/express, and then clicking on the button that says “DB2 online forum”

In addition, for technical questions specific to this training, you can use the course forum in db2university.com after enrolling to course AA001EN

Course topics

- **Welcome**
- **Relational database concepts**
 - Hands-on lab
- **Getting started with DB2**
 - Hands-on lab
- **Getting started with Data Studio**
 - Hands-on lab
- **Introduction to SQL and database objects**
 - Hands-on lab

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11

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These are the course topics to cover in this training. They should be covered in order. The topics can be taught in a university semester, or in a few full days.

Each topic has its corresponding hands-on lab.

The topics include an introduction of Relational Database Concepts, DB2, Data Studio, and SQL.

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Course topics (continued)

- **Data Concurrency and Locking**
 - Hands-on lab
- **Database Security**
 - Hands-on lab
- **Backup and Recovery**
 - Hands-on lab
- **DB2 pureXML**
 - Hands-on lab

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12

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Then we move on to more advance topics covering concurrency and locking, database security, backup and recovery, and DB2 pureXML

Course topics (continued)

- **DB2 Application Development**
 - Hands-on lab
- **Troubleshooting**
 - Hands-on lab
- **Test 302 delivery (Optional)**

**** A pre-requisite to take the test is to complete the course survey online**

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13

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Finally we focus on Database application development topics, and troubleshooting.

Delivery of test 302 free of charge may be optional in this class. Your class manager or instructor should inform you if the test will take place at the end of the training. As long as this training has been completed, the test could be offered at a later date to allow students to study. If you pass this test you will become IBM certified as an Academic Associate.

The survey to complete at the end of the class can be found at:

http://www.surveymonkey.com/s/db2_academic

completing the survey will help us improve the materials!


If you are only taking this course online, you will not be given the chance to take the test for free. You can either pay for taking the test, or look for a schedule class in your city. If you cannot find this information, contact us at imschool@us.ibm.com

We talk more about this test in the next slides

Test 302 - Details

- **Test 302 - DB2 9 Database and Application Fundamentals**

- Pass this test to become an **IBM Certified Academic Associate**
- Number of questions (multiple-choice): 60
- Time allowed in minutes: 90
- Required passing score: 60%
- Test languages:
 - English,
 - Chinese Simplified,
 - Portuguese,
 - Spanish LA



**Free for attendees of
this training!****

** Testing is free in many academic situations; however, confirm with your classroom instructor

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14

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This slide provides more information about Test 302. The test has 60 multiple choice questions, and a 90 minute time limit. To pass the test you need at least 60%

The test is offered in English, simplified Chinese, Portuguese, and Spanish.

As discussed earlier, you can take this test for free if you participate in this training ONSITE.

We recommend you to first take this course ONLINE, and then take it again ONSITE so you can write the test for free, and also improve your chances of passing it.

More details about this test can be found at:

<http://www-03.ibm.com/certify/tests/ovr000-302.shtml>

Test 302 – Details (continued)

- **Test 302 : IBM Certified Academic Associate - DB2 9 Database and Application Fundamentals**
- **Test breakdown:**

Topics	# of questions	Percentage
Relational Database Concepts	7	11.67
Getting started with DB2 and Data Studio	12	20.00
Working with SQL and Database Objects	12	20.00
Data Concurrency and Locking	5	8.33
Database Security	5	8.33
DB2 Backup and Recovery	5	8.33
DB2 pureXML	6	10.00
DB2 Application Development	7	11.67
Troubleshooting	1	1.67
Total	60	100%

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15

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This slide show the test breakdown by topic.

Professional Certifications

- **IBM Information Management Certification Web site:**

www.ibm.com/software/data/education/certification.html

- Exam 730: Database associate
- Exam 541: Database Administrator for DB2 9.7 LUW
- Exam 543: Application Developer for DB2 9.7 LUW
- Exam 732: Database Administrator for DB2 9 for z/OS
- Exam 734: Advanced Database Administrator for DB2 9.7 LUW



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16

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If you would like to further your studies in DB2, and get professional IBM Certifications, you can follow these steps:

Step 1: IBM Certified Database Associate for DB2 9 Fundamentals, Exam 730

Exam info: <http://www-03.ibm.com/certify/tests/obj730.shtml>

Free tutorial: <http://www.ibm.com/developerworks/offers/lp/db2cert/db2-cert730.html>

Step 2 (for DBAs): IBM Certified Database Administrator for DB2 9.7 DBA for LUW, Exam 541

Exam info: <http://www-03.ibm.com/certify/tests/obj541.shtml>

Free tutorial (DB2 9): <http://www.ibm.com/developerworks/offers/lp/db2cert/db2-cert731.html>

Step 2 (for Developers): IBM Certified Application Developer for DB2 9.7, Exam 543

Exam info: <http://www-03.ibm.com/certify/tests/obj543.shtml>

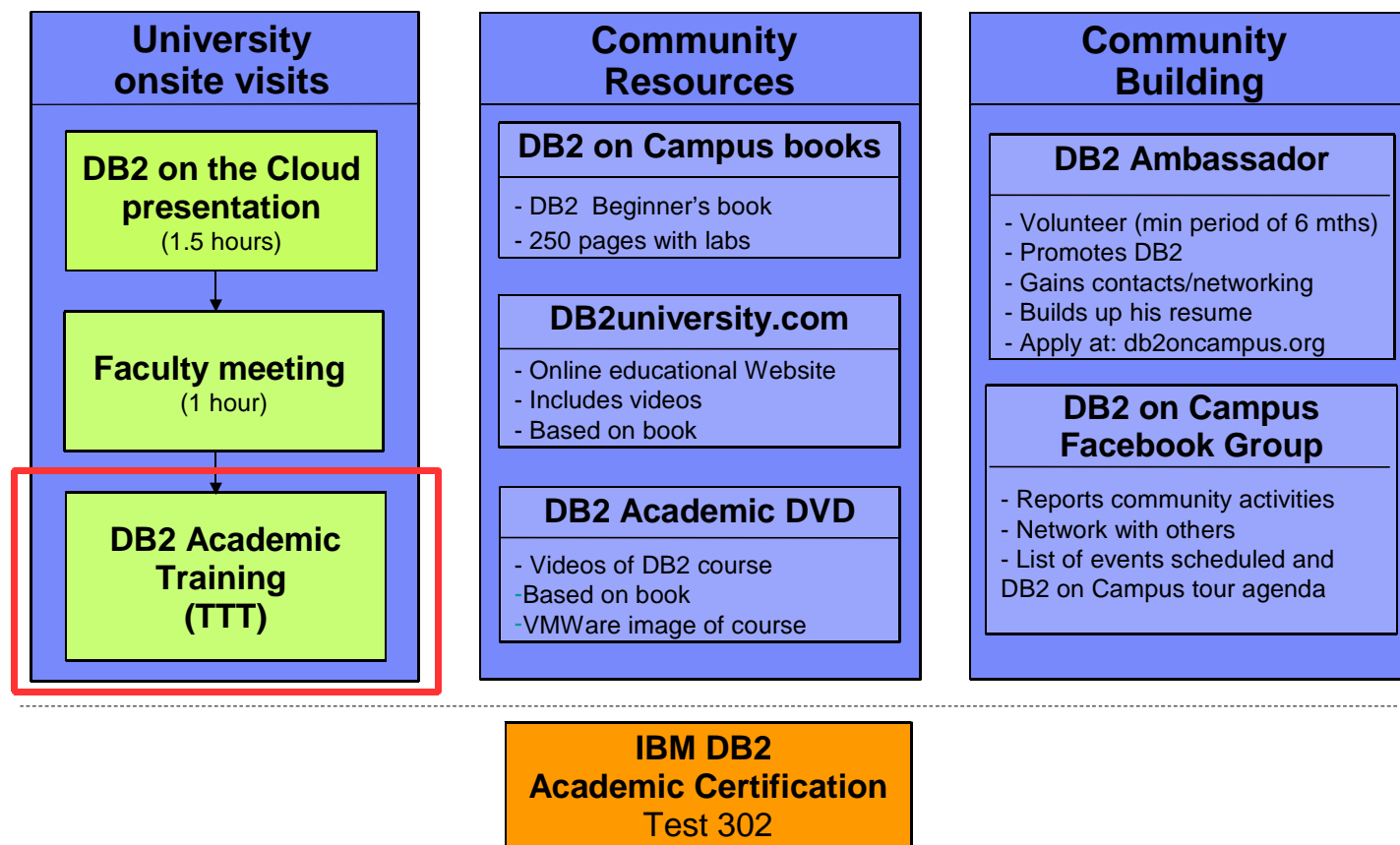
Step 2 (for z/OS): IBM Certified Database Administrator for DB2 9 DBA for z/OS, Exam 732

Exam info: <http://www-03.ibm.com/certify/tests/obj732.shtml>

Step 3: IBM Certified Advanced Database Administrator for DB2 9 DBA for LUW, Exam 734

Exam info: <http://www-03.ibm.com/certify/tests/obj734.shtml>

DB2 on Campus community program



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17

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The DB2 Academic Training is part of a larger initiative called “DB2 on Campus” as you can see from the figure. DB2 on Campus is a community program sponsored by IBM. Everything listed in this chart is offered free of charge. The program has 3 pillars:

University visits:

Members of the DB2 on Campus community or IBMers will visit universities to build relationships, establish an onsite presence and raise awareness about IBM Information Management products. Normally we raise awareness with a presentation for students and teachers that talk about some ‘hot’ technology. For example, this year’s presentation is called “DB2 on the Cloud”. We then meet with faculty to discuss specific concerns or needs. In addition, we offer (mainly to faculty) the DB2 Academic Training. TTT means “Teach the teachers”, so the idea is to train this material to teachers so they teach it to their students in class. Both, the teachers who take this course, and the students who receive training from their teachers will be eligible to taking certification test 302 free of charge.

Under community resources, we see several of the free resources we’ve already discussed about: Free eBooks, Free eLearning courses in db2university.com, the free DB2 Academic Training DVD and so on. Some of these materials have been translated by the community to different languages, and they are all related so that you can learn more easily, and in different formats!.

Under Community Building, the DB2 on Campus program fosters participation and networking. We invite professionals and students to become “DB2 Ambassadors”. We talk more about this in the next slide

Below the dashed line you can see what the end goal of all of these activities is: We need more people certified on DB2 to cope with demand. All of the resources mentioned in this slide can help you prepare to take Test 302. If you pass this test, you become certified as a “DB2 Academic Associate”.

DB2 (Student) Ambassador Program

- **Student or professional volunteer**
- **Minimum period: 6 months**
- **No prior knowledge of DB2 required**
- **The more you do, the more you can add to your resume**
- **Good for networking, but no guarantee of employment**
- **Apply at www.db2oncampus.org**

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18

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As mentioned earlier, a DB2 Ambassador can be a professional or student willing to actively promote DB2 and other IBM Information Management products like Data Studio, in their organization. The minimum period of participation is 6 months. To become a DB2 Ambassador, you can apply at db2oncampus.org. You don't need to know DB2 when you apply, but we hope you will become DB2 certified within your ambassador period.

The more you do as ambassador, the more you can add to your resume. The main benefit of becoming an ambassador is the networking opportunities you will have with IBMers around the world. This may help you (though not guaranteed) find a good job.

DB2 (Student) Ambassador Program

Examples of tasks:

- **Establish a (university) DB2 User Group**
- **Promote DB2 Express-C downloads**
- **Create/translate the courses in db2university.com**
- **Write/translate articles or books**
- **Migrate applications to DB2**
- **Participate in application development projects**
- **Select good papers to post on a blog**
- **Interview DB2 Student ambassador candidates**

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19

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These are some examples of the tasks a DB2 Ambassador can do.

To establish a DB2 User Group in the university or company, it's enough to create a Facebook group, and promote it in your organization for people to join.

Example of student working at the IBM Toronto Lab

Henrique Copelli Zambon



- **Computer Engineering student, University of Sao Paulo, Brazil**
- **Participating in a 16-month internship at the IBM Toronto Lab since Aug 2010**
- **Technologies used in his projects:**
 - Ruby on Rails
 - PHP
 - Web services
 - Cloud
 - Android

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20

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This is an example of a student from Brazil who was able to join the IBM Toronto Lab on a 16-month internship thanks to networking related to the DB2 on Campus program. The slide lists the type of projects/technologies he is currently working on.

DB2 on Campus group in Facebook

facebook Profile edit Friends ▾ Inbox ▾ home account privacy logout

Search

Applications edit

- Photos
- Events
- Groups
- Marketplace
- ChannelDB2 Videos
- more

Stella Artois Challenge

How do you make the pouring ritual your own? Show us your Stella home pouring ritual and you could be off to Belgium. Click to enter.

More Ads | Advertise

DB2 on Campus Global

Information edit

Basic Info

Type: Internet & Technology - Software

Description: This group is for people interested in the DB2 on Campus program

Contact Info

Email: db2univ@ca.ibm.com

Website: <http://www.ibm.com/db2/express/students...>

Recent News edit

Fun viral videos about pureXML:
http://www.youtube.com/watch?v=BmtXaZ_HhBg
<http://www.youtube.com/watch?v=u6axQuSjWdQ&feature=related>
<http://www.youtube.com/watch?v=nU4KoeECKus&feature=related>

*** DB2 on Campus Tour 2008 schedule ***

Sep 15 - 19: India (Looking for DB2 Student Ambassadors!)

Sep 29 - Oct 3: Portugal

Oct 6 - Oct 10: Italy (TBC)

Oct 13 - Oct 17: Poland

Oct 20 - Oct 24: Romania

Oct 27 - Oct 31: Bulgaria

Nov 3 - Nov 7: Turkey

*** Learn DB2 Express-C quickly with these FREE resources ***

<http://www.ibm.com/developerworks/forums/thread.jspa?threadID=714455&start=0>

View Discussion Board

Message All Members

Edit Group

Edit Members

Edit Group Officers

Invite People to Join

Create Related Event

Leave Group

Share +

Events X edit

7 past events See All

Faculty Training
Ho Chi Minh City, Vietnam
Wednesday, August 20 at 9:00am

Faculty training - DB2, RDA, I...
Hue, Vietnam
Monday, August 18 at 9:00am

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21

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Join the DB2 on Campus group in Facebook and stay up-to-date with news about the program. Make new friends and network with fellow students and professionals working with DB2. DB2 on Campus tour schedules are also posted in this group. The direct link to the group is:

<http://www.facebook.com/group.php?gid=3000790461>

IDUG: International DB2 User's Group

- **A community of more than 10,000 DB2 users worldwide**
- **IDUG Benefits and Features:**
 - In-person events around the world
 - A dynamic Web site, www.IDUG.org
 - Online education, training and tips & techniques
 - Online community discussion forums
 - *Solutions Journal*, IDUG's peer-reviewed publication
 - Interactive, collective process for submitting future product direction and functionality to vendors
- **Watch <http://youtube.com/watch?v=S2kQR21gHMg> to experience all that IDUG offers.**
- **Or, learn more about IDUG at www.IDUG.org.**

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22

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IDUG is a community of DB2 professionals around the world. It has more than 10,000 members. Join and network!

ChannelDB2.com social network – Videos and more!



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Groups Edit

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108 members
- [DB2 for Linux, UNIX, Win...](#)
103 members
- [DB2 IN INDIA](#)
64 members
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- [DB2 GROUP2](#)
2 members

[+ Add a Group](#) [View All](#)

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Added by [Natasha Tolub](#)
- [What's New Since V9.7 GA?](#)
Added by [Natasha Tolub](#)

Raul

Sign Out

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- Alerts
- Friends – [invite](#)
- Settings

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ChannelDB2 is a social network for DB2 enthusiasts. It provides short videos related to DB2 and related products. Watch the videos in ChannelDB2 to learn quickly about the latest features of information management products. Create groups, invite friends!, network!

IBM Information Champion Program

- **IBM's recognition to community members who:**
 - Contribute in forums
 - Run Web sites with IBM Data Management software
 - Write articles and technical guides
 - Produce videos and podcasts
 - Speak at technical conferences
 - Teach technical skills.
- **Rewards:**
 - Invited to special events
 - Featured on an IBM Web site
 - Free access to software for personal use, etc.

www.ibm.com/software/data/champion

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24

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The IBM Information Champion program is a separate program from IBM that recognizes members of the community for their contribution in the promotion of IBM Information Management products. Many DB2 Ambassadors have been nominated, and some have won this recognition.

Other reading material

- **Redbooks (free)** (www.redbooks.ibm.com/)

- Understanding DB2 9 Security 0-13-1345907
- DB2 9 for Developers 978-158347-071-9



- **Printed books (fee-based)**

- DB2 9 Fundamentals 978-1-58-347072-5
- DB2 9 for Linux, UNIX, and Windows Database Administration 158347-077-8
- DB2 9 for z/OS Database Administration 978-158347-074-9
- DB2 9 for Linux, UNIX, and Windows Database Administration Upgrade 158347-078-6
- DB2 9 for Linux, UNIX, and Windows – Sixth Ed. 0-13-185514-X
- Understanding DB2: Learning Visually with Examples 0-13-158018-3



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25

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Redbooks are free books that you can download from www.redbooks.ibm.com. They cover a vast range of topics that help you gain skills on IBM software at no cost!.

There are also printed books which are fee-based that you may want to purchase if you decide to further your studies in DB2 and get certified.

Other workshops (bootcamps) for IBM Business Partners

- DB2 9.7 LUW & Migration Clinic
- DB2 pureXML
- Informix 11.5
- IBM InfoSphere Warehouse v9.7
- IBM Optim Solutions
- Guardium
- SolidDB
- InfoSphere Change Data Capture
- InfoSphere Information Server
- InfoSphere Master Data Management
- Guardium



www.ibm.com/developerworks/data/bootcamps/

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26

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IBM also offers free onsite (face-to-face) bootcamps for IBM Business Partners. These are workshops covering different topics related to IBM Information Management products. Though the targeted audience are IBM Business Partners; in some situations if there is space, faculty members may be able to attend. Some online free material related to this bootcamps can be found here:

<https://www.ibm.com/developerworks/mydeveloperworks/groups/service/html/communityview?communityUuid=4ac531ae-6ed1-43b7-91e9-ab9b1142b24b>

Other resources

- **DB2 Information Center (online manuals):**
 - <http://publib.boulder.ibm.com/infocenter/db2luw/v9r7/>
- **Tutorials/Self-Study**
 - www.ibm.com/software/data/education/selfstudy.html
- **Data Management Magazine**
 - www.ibmdmmagazinedigital.com/
- **Performance Perspectives – Insights and ideas on Information on Demand**
 - www-01.ibm.com/software/data/performance-perspectives/



05/27/2011

27

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This slide shows more resources you can take advantage of. The DB2 Information Center provides the DB2 manuals online. Most answers to DB2 problems/questions can be found from the DB2 Information Center. We talk more about the DB2 Information Center in the “Troubleshooting” presentation at the end of this course.

Other resources (Continued)

- **IBM Academic Initiative (for Faculty)**
 - www.ibm.com/developerworks/university/academicinitiative/
- **IBM Academic Initiative Student Portal**
 - www.ibm.com/developerworks/university/students/index.html
- **IBM Student Opportunity System**
 - www.ibm.com/developerworks/university/students/sos/
- **IBM developerWorks**
 - www.ibm.com/developerworks/

05/27/2011

28

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If you are taking this training course, it is likely that you already know about the **IBM Academic Initiative (AI)**. If you don't, visit the AI portal and register! Joining the IBM Academic Initiative gives you access to software and educational material you can use in your research projects or classes at no charge! Usage of these resources are only allowed for research/teaching purposes.

For students, there is also an AI portal. In addition, students who become IBM certified, can post their resumes in the **IBM SOS (Student Opportunity System)**

DeveloperWorks is a portal for developers and administrators and provides a vast range of materials for free. There are many articles, tutorials and demos of IBM products that you can access from this site. In addition, you can join "**MyDeveloperworks**" which is a professional social network for people interested in IBM products.

Download FREE software

- **DB2 Express-C and Data Studio**

www.db2express.com

or

www.ibm.com/db2/express/download.html



05/27/2011

29

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The use of the VMWare image provided with this training course is really optional. If you prefer, you can download and install the software used in this course locally on your own computer:

- DB2 Express-C
- IBM Data Studio

Both can be downloaded from either of the links provided. These are free products.



Thank you!

Use the forum in the db2university.com course AA001EN if you have technical questions about the materials covered in this course. Fellow students, faculty and IBMers can help you!