# uCertify Course Outline

IT Specialist Databases



03 May 2024

- 1. Course Objective
- 2. Pre-Assessment
- 3. Exercises, Quizzes, Flashcards & Glossary

**Number of Questions** 

- 4. Expert Instructor-Led Training
- 5. ADA Compliant & JAWS Compatible Platform
- 6. State of the Art Educator Tools
- 7. Award Winning Learning Platform (LMS)
- 8. Chapter & Lessons

Syllabus

Chapter 1: Understand Core Database Concepts

Chapter 2: Create Database Objects

Chapter 3: Manipulate Data

Chapter 4: Understand Data Storage

Chapter 5: Administer a Database

Chapter 6: Appendix

Videos and How To

9. Practice Test

Here's what you get

Features

10. Live labs

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Here's what you get

11. Post-Assessment

# 1. Course Objective

A database is a collection of data organized to provide efficient retrieval. Get the real-world experience of working with databases with uCertify's course IT Specialist Databases. The course contains interactive lessons, practice tests, knowledge checks, quizzes, flashcards, glossaries, and live labs to comprehensively cover the ITSPC exam objectives. It equips the candidates with all the skills required to pass the ITSPC Databases exam.

# 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

# 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.



# 4. ? Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



## 5. 1 flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



## 6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



# 7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 8. ( ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 9. ( State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

#### • 2014

1. Best Postsecondary Learning Solution

#### 2015

- 1. Best Education Solution
- 2. Best Virtual Learning Solution
- 3. Best Student Assessment Solution
- 4. Best Postsecondary Learning Solution
- 5. Best Career and Workforce Readiness Solution
- 6. Best Instructional Solution in Other Curriculum Areas
- 7. Best Corporate Learning/Workforce Development Solution

#### • 2016

- 1. Best Virtual Learning Solution
- 2. Best Education Cloud-based Solution
- 3. Best College and Career Readiness Solution
- 4. Best Corporate / Workforce Learning Solution
- 5. Best Postsecondary Learning Content Solution
- 6. Best Postsecondary LMS or Learning Platform
- 7. Best Learning Relationship Management Solution

#### • 2017

- 1. Best Overall Education Solution
- 2. Best Student Assessment Solution
- 3. Best Corporate/Workforce Learning Solution
- 4. Best Higher Education LMS or Learning Platform

#### • 2018

1. Best Higher Education LMS or Learning Platform

- 2. Best Instructional Solution in Other Curriculum Areas
- 3. Best Learning Relationship Management Solution

#### 2019

- 1. Best Virtual Learning Solution
- 2. Best Content Authoring Development or Curation Solution
- 3. Best Higher Education Learning Management Solution (LMS)

#### • 2020

- 1. Best College and Career Readiness Solution
- 2. Best Cross-Curricular Solution
- 3. Best Virtual Learning Solution

# 11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## **Syllabus**

#### Chapter 1: Understand Core Database Concepts

- Understand How Data is Stored in Tables
- Understand Relational Database Concepts
- Understand Data Manipulation Language (DML)

- Understand Data Definition Language (DDL)
- Summary

#### Chapter 2: Create Database Objects

- Choose Data Types
- Understand Tables and How to Create them
- Create Views
- Create Stored Procedures and Functions
- Summary

#### Chapter 3: Manipulate Data

- Select Data
- Insert Data
- Update Data
- Delete Data
- Transaction Controls
- Summary

### Chapter 4: Understand Data Storage

- Understand Normalization
- Understand Primary, Foreign, and Composite keys
- Understand Indexes
- Summary

#### Chapter 5: Administer a Database

- Understand Database Security Concepts
- Understand Database Backups and Restore
- Summary

#### Chapter 6: Appendix

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

319 VIDEOS 05:06
HOURS



## Here's what you get

**50** 

PRE-ASSESSMENTS QUESTIONS 2

**FULL LENGTH TESTS** 

54

POST-ASSESSMENTS QUESTIONS

#### **Features**

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

#### **Unlimited Practice**

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

# 13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations

- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

#### Lab Tasks

#### **Understand Core Database Concepts**

- Dropping a Column from a Table
- Creating an ER Diagram
- Renaming a Table
- Creating a Database
- Deleting a Database
- Adding a Column to a Table
- Modifying a Column in a Table
- Using the SELECT Command
- Using the CREATE Command

#### **Create Database Objects**

- Creating a Stored Procedure
- Modifying Stored Proc Definitions
- Creating a View using the WITH CHECK OPTION Clause
- Creating an Inline Table-Valued Function
- Using the ALTER VIEW Statement
- Using the CREATE VIEW Syntax
- Handling NULL Values
- Exceeding Data Type Limit
- Inserting Values into a Table using the Stored Procedure
- Altering a Stored Procedure

#### **Manipulate Data**

- Using a Complex Inner Join
- Using a Simple Inner Join
- Using CROSS JOIN
- Using RIGHT OUTER JOIN
- Using LEFT OUTER JOIN
- Using the DELETE Statement
- Using the UPDATE Statement
- Using the INTERSECT Operator
- Using FULL OUTER JOIN
- Using the EXCEPT Operator
- Using the UNION Operator
- Using the SELECT DISTINCT Statement
- Using the ORDER BY Keyword
- Using the SELECT, FROM, and WHERE Clauses
- Using the INSERT Statement
- Using Transaction Controls

#### **Understand Data Storage**

- Creating a Non-Clustered Index
- Using a Function-Based Index
- Creating a Function-Based Index
- Using Referential Integrity Constraints

#### Administer a Database

- Creating a Backup
- Accessing the Database Roles
- Adding a New Login

## Here's what you get

LIVE LABS

VIDEO TUTORIALS

**HOURS** 

## **14.** (᠄) Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

## **GET IN TOUCH:**

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