UNIVERSITY OF MICHIGAN

# COURSE CERTIFICATE

08/12/2020

## Jans Johnson

has successfully completed

## Using Databases with Python

an online non-credit course authorized by University of Michigan and offered through Coursera


Charles Severance
Clinical Professor, School of Information
University of Michigan

Verify at coursera.org/verify/NWGLW6EKC9F2

Coursera has confirmed the identity of this individual and their participation in the course.

WEEK

1

3 hours to complete

## Object Oriented Python

To start this class out we cover the basics of Object Oriented Python. We won't be writing our own objects, but since many of the things we use like BeautifulSoup, strings, dictionaries, database connections all use Object Oriented (OO) patterns we should at least understand some of its patterns and terminology.

12 videos (Total 83 min), 4 readings, 2 quizzes SEE ALL

WEEK

2

4 hours to complete

## Basic Structured Query Language

We learn the four core CRUD operations (Create, Read, Update, and Delete) to manage data stored in a database.

7 videos (Total 77 min) SEE ALL

WEEK

3

3 hours to complete

## Data Models and Relational SQL

In this section we learn about how data is stored across multiple tables in a database and how rows are linked (i.e., we establish relationships) in the database.

8 videos (Total 81 min) SEE ALL

WEEK

4

3 hours to complete

## Many-to-Many Relationships in SQL

In this section we explore how to model situations like students enrolling in courses where each course has many students and each student is enrolled in many courses.

5 videos (Total 62 min) SEE ALL

WEEK

5

2 hours to complete

## Databases and Visualization

In this section, we put it all together, retrieve and process some data and then use the Google Maps API to visualize our data.

6 videos (Total 40 min), 4 readings, 1 quiz SEE ALL

Show Less

## Reviews

**4.8** ★★★★★ 2858 reviews

TOP REVIEWS FROM USING DATABASES WITH PYTHON

★★★★☆