ITS Databases

Category: AI, Data & Analytics | **Vendor:** Pearson

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Mentored

Certification: ITS Databases

Course Overview

Databases serve as a foundation layer of many web and data applications, business reporting functions, and prediction algorithms. In this course, students will learn how to: Design and optimize a database. Create, update, and delete records and tables. Filter and aggregate data. Automate certain procedures. Taken together, these skills will serve as an entry point into data-related careers in reporting, data engineering, and automation.

About This Course

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Who Should Attend

Designed for high school-level students and learners interested in obtaining a working-level proficiency with databases. After completing this course, you will be able to perform the basic responsibilities of an entry-level professional in the IT field or take advanced database courses that will allow you to become a database administrator.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Upon successful completion of this course, students should be able to:Translate business case into a normalized database design. Create and maintain tables, views, and stored procedures that support business operations. Create and maintain tables, views, and stored procedures that support reporting functions. Optimize and troubleshoot queries.

Detailed Course Outline

Lesson 1: Database Design

- Skill 1.1: Given a scenario, design tables for storing data.
- Skill 1.2: Given a scenario, identify the appropriate primary key.
- Skill 1.3: Given a scenario, choose data types to meet the requirements.
- Skill 1.4: Given a scenario, design relationships between tables.
- Skill 1.5: Normalize a database.
- Skill 1.6: Given a scenario, identify data protection measures.

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Lesson 2: Database Object Management using DDL

- Skill 2.1: Construct and analyze queries that create, alter, and drop tables.
- Skill 2.2: Construct and analyze queries that create, alter, and drop views.
- Skill 2.3: Construct and analyze stored procedures and functions.
- Skill 2.4: Given a scenario, choose between clustered and non-clustered indexes.

Lesson 3: Data Retrieval

- Skill 3.1: Construct and analyze queries that select data.
- Skill 3.2: Construct and analyze queries that sort and filter data.
- Skill 3.3: Construct and analyze queries that aggregate data.

Lesson 4: Data Manipulation using DML

- Skill 4.1: Construct and analyze INSERT statements.
- Skill 4.2: Construct and analyze UPDATE statements.
- Skill 4.3: Construct and analyze DELETE statements.

Lesson 5: Troubleshooting

- Skill 5.1: Troubleshoot data object management query failures.
- Skill 5.2: Troubleshoot data retrieval query failures.
- Skill 5.3: Troubleshoot data manipulation query failures.

Additional Course Details

Nexus Humans ITS Databases training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward. This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the ITS Databases course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for ITS Databases?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The ITS Databases course helps prepare you for the ITS Databases certification path.

Q: How many CPD hours does this course provide?

The 4-day ITS Databases course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the ITS Databases training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for ITS Databases?

Yes, we provide corporate training, dedicated training, and closed classes for ITS Databases. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for ITS Databases?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your ITS Databases training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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