**COURSE 3**

**PREPARE DATA FOR EXPLORATION**

**MODULE 1 - DATA TYPES AND STRUCTURES**

**DATA EXPLORATION**

**COLLECT DATA**

[**DATA COLLECTION IN OUR WORLD**](https://www.coursera.org/learn/data-preparation/lecture/QCPVt/data-collection-in-our-world)

**Stakeholders** are people that ha

[**DETERMINE WHAT DATA TO COLLECT**](https://www.coursera.org/learn/data-preparation/lecture/XWEc0/determine-what-data-to-collect)

**Stakeholders** are people that ha

[**SELECT THE RIGHT DATA**](https://www.coursera.org/learn/data-preparation/supplement/7iFqv/select-the-right-data)

**Stakeholders** are people that ha

[**TEST YOUR KNOWLEDGE ON COLLECTING DATA**](https://www.coursera.org/learn/data-preparation/quiz/K3gtu/test-your-knowledge-on-collecting-data)

**DIFFERENTIATE DATA FORMATS AND STRUCTURES**

[**DISCOVER DATA FORMATS**](https://www.coursera.org/learn/data-preparation/lecture/8rP33/discover-data-formats)

**Stakeholders** are people that ha

[**DATA FORMATS IN PRACTICE**](https://www.coursera.org/learn/data-preparation/supplement/mBSNa/data-formats-in-practice)

**Stakeholders** are people that ha

[**OPTIONAL SELF-REFLECTION: UNSTRUCTURED DATA**](https://www.coursera.org/learn/data-preparation/quiz/zX8DT/optional-self-reflection-unstructured-data)

**Stakeholders** are people that ha

[**CONTINUE EXPLORING STRUCTURED DATA**](https://www.coursera.org/learn/data-preparation/lecture/PWTqC/continue-exploring-structured-data)

**Stakeholders** are people that ha

[**THE EFFECTS OF DIFFERENT STRUCTURES**](https://www.coursera.org/learn/data-preparation/supplement/tkt9D/the-effects-of-different-structures)

**Stakeholders** are people that ha

[**DIFFERENTIATE DATA TYPES**](https://www.coursera.org/learn/data-preparation/ungradedWidget/uw7l4/differentiate-data-types)

**Stakeholders** are people that ha

[**DATA MODELING LEVELS AND TECHNIQUES**](https://www.coursera.org/learn/data-preparation/supplement/vtp7L/data-modeling-levels-and-techniques)

**Stakeholders** are people that ha

[**TEST YOUR KNOWLEDGE ON DATA FORMATS AND STRUCTURES**](https://www.coursera.org/learn/data-preparation/quiz/vn3Ui/test-your-knowledge-on-data-formats-and-structures)

**Stakeholders** are people that ha

**EXPLORE DATA TYPES,FIELDS, AND VALUES**

**MODULE 1 CHALLENGE**

**MODULE 2 - DATA RESPONSIBILITY**

**UNBIASED AND OBJECTIVE DATA**

**[INTRODUCTION TO BIAS, CREDIBILITY, PRIVACY, AND ETHICS](https://www.coursera.org/learn/data-preparation/lecture/qALoI/introduction-to-bias-credibility-privacy-and-ethics)**

**[BIAS: FROM QUESTIONS TO CONCLUSIONS](https://www.coursera.org/learn/data-preparation/lecture/D3P1G/bias-from-questions-to-conclusions)**

**[BIASED AND UNBIASED DATA](https://www.coursera.org/learn/data-preparation/lecture/eqg98/biased-and-unbiased-data)**

**[ACCOUNT FOR BIAS](https://www.coursera.org/learn/data-preparation/discussionPrompt/g4GCA/account-for-bias)**

**[UNDERSTAND BIAS IN DATA](https://www.coursera.org/learn/data-preparation/lecture/NGtoT/understand-bias-in-data)**

**[TEST YOUR KNOWLEDGE ON UNBIASED AND OBJECTIVE DATA](https://www.coursera.org/learn/data-preparation/quiz/eQwG4/test-your-knowledge-on-unbiased-and-objective-data)**

**ACHIEVE DATA CREDIBILITY**

**[IDENTIFY GOOD DATA SOURCES](https://www.coursera.org/learn/data-preparation/lecture/vEobk/identify-good-data-sources)**

**[WHAT IS "BAD" DATA?](https://www.coursera.org/learn/data-preparation/lecture/lHirM/what-is-bad-data)**

[**TEST YOUR KNOWLEDGE ON DATA CREDIBILITY**](https://www.coursera.org/learn/data-preparation/quiz/5ZRVN/test-your-knowledge-on-data-credibility)

**DATA ETHICS AND PRIVACY**

**[ESSENTIAL DATA ETHICS](https://www.coursera.org/learn/data-preparation/lecture/AWqwt/essential-data-ethics)**

**[OPTIONAL REFRESHER: ALEX AND THE IMPORTANCE OF DATA ETHICS](https://www.coursera.org/learn/data-preparation/lecture/BVQjE/optional-refresher-alex-and-the-importance-of-data-ethics)**

**[PRIORITIZE DATA PRIVACY](https://www.coursera.org/learn/data-preparation/lecture/OPSzY/prioritize-data-privacy)**

**[DATA ANONYMIZATION](https://www.coursera.org/learn/data-preparation/supplement/rtTel/data-anonymization)**

**[ANDREW: THE ETHICAL USE OF DATA](https://www.coursera.org/learn/data-preparation/lecture/a38HL/andrew-the-ethical-use-of-data)**

[**TEST YOUR KNOWLEDGE ON DATA ETHICS AND PRIVACY**](https://www.coursera.org/learn/data-preparation/quiz/UCgeu/test-your-knowledge-on-data-ethics-and-privacy)

**UNDERSTAND OPEN DATA**

**[FEATURES OF OPEN DATA](https://www.coursera.org/learn/data-preparation/lecture/4TTkQ/features-of-open-data)**

**[THE OPEN DATA DEBATE](https://www.coursera.org/learn/data-preparation/supplement/dj6K0/the-open-data-debate)**

**[ANDREW: STEPS FOR ETHICAL DATA USE](https://www.coursera.org/learn/data-preparation/lecture/Bcpoq/andrew-steps-for-ethical-data-use)**

**[RESOURCES FOR OPEN DATA](https://www.coursera.org/learn/data-preparation/supplement/3hAmz/resources-for-open-data)**

**[HANDS-ON ACTIVITY: KAGGLE DATASETS](https://www.coursera.org/learn/data-preparation/quiz/HXUbK/hands-on-activity-kaggle-datasets)**

[**TEST YOUR KNOWLEDGE ON OPEN DATA**](https://www.coursera.org/learn/data-preparation/quiz/VbUWF/test-your-knowledge-on-open-data)

**MODULE 2 CHALLENGE**

**[GLOSSARY TERMS FROM MODULE 2](https://www.coursera.org/learn/data-preparation/supplement/HHhBb/glossary-terms-from-module-2)**

**[MODULE 2 CHALLENGE](https://www.coursera.org/learn/data-preparation/exam/jZOOG/module-2-challenge)**

**MODULE 3- DATABASE ESSENTIALS**

**WORK WITH DATABASES**

[**CHALLENGE**](https://www.coursera.org/learn/data-preparation/exam/jZOOG/module-2-challenge)

**MANAGE DATA WITH METADATA**

**ACCESS DIFFERENT DATA SOURCES**

**SORT AND FILTER DATA**

**LARGE DATASETS IN SQL**

**MODULE 3 CHALLENGE**

**MODULE 4- ORGANIZE AND PROTECT DATA**

**BRING DATA TO ORDER**

[**CHALLENGE**](https://www.coursera.org/learn/data-preparation/exam/jZOOG/module-2-challenge)

**SECURE DATA**

**MODULE 4 CHALLENGE**

**MODULE 5- ENGAGE IN DATA COMMUNITY**

**CREATE OR ENHANCE YOUR ONLINE PRESENCE**

[**CHALLENGE**](https://www.coursera.org/learn/data-preparation/exam/jZOOG/module-2-challenge)

**BUILD A DATA ANALYTICS NETWORK**

**COURSE WRAP-UP**

**ALWAYS REMEMBER THE STAKEHOLDERS**

[**COMMUNICATING WITH YOUR TEAM**](https://www.coursera.org/learn/ask-questions-make-decisions/lecture/86sLz/communicating-with-your-team)

[**BALANCE NEEDS AND EXPECTATIONS ACROSS YOUR TEAM**](https://www.coursera.org/learn/ask-questions-make-decisions/lecture/caTQ9/balance-needs-and-expectations-across-your-team)

**Stakeholders** are people that have invested time, interest, and resources into the projects that you'll be working on as a data analyst. In other words, **they hold stakes in what you're doing.** There's a good chance they'll need the work you do to perform their own needs.