**Big Data Analysis With Ibm Cloud Databases**

**Phase 3: Development Part 1**

In this part you will begin building your project.

Start building the big data analysis solution using IBM Cloud Databases.

Create an IBM Cloud account, choose the appropriate database service (e.g., Db2, MongoDB), and set up a database instance.

Develop queries or scripts to explore and analyze the selected dataset. Perform basic data cleaning and transformation as needed.

**Introduction:**

Big data analytics is the use of advanced analytic techniques against very large, diverse big data sets that include structured, semi-structured and unstructured data, from different sources, and in different sizes from terabytes to zettabytes.

**Database:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| index1 | Firstname | Sex | Email | Jobtitle |
| 1 | Shelby | Male | [elijah@example.net](mailto:elijah@example.net) | Games developer |
| 2 | Phillip | Female | [bethany@example.com](mailto:bethany@example.com) | Phytotherapist |
| 3 | Kristine | Male | bthompson@example.com | Homeopath |
| 4 | Yesenia | Male | kaitlinkaiser@example.com | Market researcher |
| 5 | Lori | Male | buchananmanuel@example.net | Veterinary surgeon |
| 6 | Erin | Male | tconner@example.org | Waste management officer |
| 7 | Katherine | Female | conniecowan@example.com | Intelligence analyst |
| 8 | Ricardo | Male | wyattbishop@example.com | Hydrogeologist |
| 9 | Dave | Male | nmccann@example.net | Lawyer |
| 10 | Isaiah | Male | virginiaterrell@example.org | Engineer, site |
| 11 | Sheila | Female | huangcathy@example.com | Advertising account executive |
| 12 | Stacy | Male | rayleroy@example.org | Warden/ranger |
| 13 | Mandy | Male | jefferynoble@example.org | Scientist, clinical (histocompatibility and immunogenetics) |
| 14 | Bridget | Female | [mercedes@example.com](mailto:mercedes@example.com) | Social worker |
| 15 | Crystal | Male | pmiranda@example.org | Agricultural consultant |
| 16 | Thomas | Female | braunpriscilla@example.net | Sport and exercise psychologist |
| 17 | Maurice | Male | sheenabanks@example.com | Secretary/administrator |
| 18 | Frank | Male | gbrewer@example.org | Audiological scientist |
| 19 | Alvin | Male | gilbertdonaldson@example.com | Teacher, adult education |
| 20 | Jared | Female | jcortez@example.com | Paediatric nurse |
| 21 | Jacqueline | Female | carias@example.net | Scientist, marine |
| 22 | Colleen | Female | fknox@example.org | Commercial horticulturist |
| 23 | Randy | Male | huangbill@example.org | Outdoor activities/education manager |
| 24 | Janice | Female | juarezdominique@example.net | Drilling engineer |
| 25 | Alfred | Female | cassandramorris@example.com | Systems analyst |
| 26 | Sean | Male | sallymiller@example.net | Conservation officer, nature |
| 27 | Louis | Male | bsullivan@example.net | Counsellor |
| 28 | Brittney | Female | ayalajose@example.net | Recycling officer |
| 29 | Judy | Male | irosales@example.net | Art gallery manager |
| 30 | Norman | Male | mconrad@example.com | Gaffer |
| 31 | Isaiah | Female | jimblake@example.org | Food technologist |
| 32 | Jacqueline | Male | nsampson@example.net | Building services engineer |
| 33 | Bonnie | Female | [caitlin@example.net](mailto:caitlin@example.net) | Seismic interpreter |
| 34 | Brandon | Female | mconley@example.net | Engineer, biomedical |
| 35 | Jackson | Female | reynoldsdarryl@example.net | Set designer |
| 36 | Melody | Male | jeannovak@example.org | Research scientist (life sciences) |
| 37 | Leonard | Male | [clinton@example.org](mailto:clinton@example.org) | Accountant, chartered management |
| 38 | Gene | Female | luisdeleon@example.org | Surveyor, quantity |
| 39 | Cynthia | Female | rosariodave@example.org | Outdoor activities/education manager |
| 40 | Tanya | Female | vickihouston@example.com | Information systems manager |
| 41 | Matthew | Female | [evelyn@example.org](mailto:evelyn@example.org) | Scientist, clinical (histocompatibility and immunogenetics) |
| 42 | Kirk | Female | stephenfuller@example.org | Accounting technician |
| 43 | Willie | Female | haleymathews@example.net | Management consultant |
| 44 | Miguel | Female | [tyrone@example.org](mailto:tyrone@example.org) | Make |
| 45 | Darren | Male | lhernandez@example.com | Retail banker |
| 46 | Haley | Female | [molly@example.org](mailto:molly@example.org) | Commissioning editor |
| 47 | Danielle | Female | jvang@example.org | Accountant, chartered management |
| 48 | Becky | Male | erikmueller@example.org | Seismic interpreter |
| 49 | Caitlyn | Male | [rivasdominique@example.org](mailto:rivasdominique@example.org) | Jewellery designer |
| 50 | Joshua | Male | daisymcgee@example.net | Education officer, museum |

**Queries :**

SELECT \* FROM people WHERE Sex = 'Female' AND last\_name LIKE 'T%';

SELECT \* FROM people WHERE Sex = 'Male' AND last\_name LIKE 'T%';

SELECT \* FROM people WHERE Sex = 'Female';

SELECT \* FROM people WHERE Sex = 'Male';

SELECT \* FROM people WHERE Sex = 'Female' AND first\_name LIKE 'K%';

SELECT \* FROM people WHERE Sex= 'Male' AND first\_name LIKE 'K%