

# BCS Concepts Exam Full Practice Paper (Unofficial)

Total points 40/40

✓ Which of the following are NOT limitations of using .XML files? Select two. 1/1

☐ Hard for humans to read

☒ Commas need to be 'text qualified' to differentiate them from delimiters ✓

☐ Repetition of markup makes file sizes larger

☒ Easily read by computers ✓

✓ Which of the following describes data? 1/1

☐ Knowledge

☒ Raw facts ✓

☐ Information

☐ Interpolation

✓ Which task occurs during the mapping stage of database transformations? 1/1

☒ Ensuring consistency of headings across files ✓

☐ Entering files into the database

☐ Renaming files for clarity

☐ Evaluating whether the final product satisfies specified requirements



✓ Which of the following is an example of open data?

1/1

- ☐ A table on Wikipedia
- ☒ Food Standards Agency food hygiene rating data ✓
- ☐ Unstructured data
- ☐ A list containing strings and numbers

✓ What are timestamps an example of?

1/1

- ☐ Ordinal data
- ☐ Protected health information
- ☐ Records
- ☒ Continuous data ✓

✓ At which point in the data lifecycle is data moved to cheaper storage?

1/1

- ☐ Obsolete
- ☐ Physical Model
- ☒ Archived ✓
- ☐ Initial storage



✓ Which of the following is the MOST suitable action to take prior to final deletion of data? 1/1

☐ Converting to .ZIP format

☐ Data cleansing

☐ Physical modelling

☒ Warning users ✓

✓ How can structured and unstructured data complement each other to derive rich insight? 1/1

☒ Combination into a common model ✓

☐ Structured data providing a structure for the unstructured data

☐ Sequentially and serially

☐ Eliciting explicit knowledge

✓ Data on new hires was initially entered with a new row at the bottom of the spreadsheet each time someone was hired. A data analyst sorts this data into alphabetical order based on surname. What have they done to the data? 1/1

☒ Converted it from serial to sequential data ✓

☐ Converted it from unstructured to structured data

☐ Converted it from sequential to serial data

☐ Converted it from structured to unstructured data



✓ Which of the following are not examples of unstructured data? Select as many as apply. 1/1

- ☐ Sensor log data
- ☐ An image showing grid positions for a motorrace
- ☒ Extensible Markup Language files ✓
- ☐ A print-out of survey results

✓ Handling a combination of structured and unstructured data can be described as which of the following? 1/1

- ☐ Project Scoping
- ☒ Big Data Analytics ✓
- ☐ De-normalisation
- ☐ Validation Testing

✓ Which of the following CORRECTLY defines verification? 1/1

- ☒ The process of checking that the data project meets the specification ✓
- ☐ The process of finding similar previous analyses and exploring existing definitions
- ☐ The process of checking whether the specification captures the customer's needs
- ☐ The process of putting each file into the database



✓ When would you engage in apprenticing?

1/1

- ☐ When you want to pay attention in a coaching session
- ☒ When you want someone to teach you how they do something and then try it yourself ✓
- ☐ When you want to make observations on yourself carrying out a task
- ☐ When you want someone to recount their experiences of what they do

✓ Which of the following are types of knowledge?

1/1

- ☐ Explicit and quantitative
- ☒ Explicit and tacit ✓
- ☐ Explicit and binomial
- ☐ Binomial and tacit

✓ Why does data not provide the answers to business problems?

1/1

- ☐ Datasets are often poor quality
- ☐ Data is irrelevant to business problems
- ☒ Data requires analysis ✓
- ☐ Datasets are too large



✓ You wish to better understand what some of the variable headers in a dataset you have not previously worked with mean. Which of the following would be the MOST appropriate methodology to gain this knowledge? 1/1

- ☒ Consulting a data dictionary ✓
- ☐ Interviewing a senior stakeholder
- ☐ Watching another analyst handle the data
- ☐ Renaming the headers to your best guess

✓ Which of the following is the correct order of the Data Modelling process? 1/1

- ☐ Logical > Conceptual > Physical
- ☐ Physical > Logical > Ordinal
- ☒ Conceptual > Logical > Physical ✓
- ☐ Logical > Ordinal > Physical

✓ Why MUST you make sure your data is good quality? 1/1

- ☒ To comply with data protection legislation ✓
- ☐ To ensure you have cleaned it sufficiently
- ☐ To prevent scope creep
- ☐ To confer a competitive advantage



✓ Which of the following are NOT common sources of errors?

1/1

☐ Completeness

☒ Conceptual



☒ Classification



☐ Consistency

✓ Which of the following would be the LEAST suitable methodology to mitigate against errors?

1/1

☒ Interpreting results



☐ Data validation

☐ Defining a data structure

☐ Spot checks

✓ Which of the following is NOT an issue likely to arise from having poor quality data?

1/1

☐ High expenses from time spent fixing the data

☒ Transferral to other countries without adequate protection



☐ Faulty business decisions

☐ Interruptions to processes



✓ Which of the following are routine steps of data analysis?

1/1

☐ Publishing of personally identifiable information online

☐ Archival of data

☒ Interpretation of results



☒ Collecting data



✓ Which of the following CORRECTLY defines interpolation?

1/1

☐ Converting data into an appropriate format

☐ Analysing police and crime data

☒ Imputing a missing value



☐ Deleting data before it has become obsolete

✓ Which ONE of the following tasks should come before the others in routine data analysis?

1/1

☐ Validation testing

☒ Understanding the subject area for analysis



☐ Completing data extraction

☐ Creation of data





✓ Which of the following methods would be MOST suitable for visualising geospatial data? 1/1

- ☒ Bubble Map ✓
- ☐ Gantt chart
- ☐ Radar chart
- ☐ GPS tracking

✓ Which of the following BEST describe a process of summarisation? 1/1

- ☐ Extraction
- ☐ Filtering
- ☐ Blending
- ☒ Aggregation ✓

✓ Which of the following is the LEAST important consideration when communicating the results of routine data analysis? 1/1

- ☒ Communication of data security rules ✓
- ☐ Listing assumptions
- ☐ Understanding the stakeholder's preferred communication style
- ☐ Understanding a customer's needs



✓ Which of the following activities would NOT be a breach of the Data Protection Act? 1/1

☐ Transferring data to a country with poor data protection legislation

☒ Asking a data subject's permission to use their data ✓

☐ Using personal data which is out-of-date

☐ Analysing data to engage in a criminal act

✓ Which of the following pieces of information is NOT classed as sensitive personal data under the Data Protection Act (1998)? 1/1

☐ Political opinions

☐ Trade Union membership

☒ Salary ✓

☐ Court sentences relating to alleged offences

✓ Which of the following would be the MOST suitable structure to contain the following data? ('Sadiq', 10, 'Penguin', 21) 1/1

☐ Array

☐ Record

☐ Table

☒ List ✓



✓ Which of the following contain parent-child relationships?

1/1

- ☐ Delimiters
- ☒ Hierarchical collections of data
- ☐ Relational databases
- ☐ CSV files



✓ What is a hypercube an example of?

1/1

- ☐ An object-oriented database
- ☒ A multi-dimensional database
- ☐ Faster-than-light travel
- ☐ Unstructured data



✓ Which of the following is a goal of normalisation?

1/1

- ☐ Introduction of derivable data
- ☐ Defragmentation of data
- ☐ Inclusion of potentially redundant relationships
- ☒ Create a design which is easy to scale



✓ What is the purpose of database maintenance?

1/1

☒ To keep the database running smoothly ✓

☐ To normalise data

☐ To ensure the database is sluggish

☐ To increase workload

✓ A graph database is an example of what?

1/1

☐ Relational databases

☐ Network databases

☐ Object-oriented databases

☒ NoSQL databases ✓

✓ Which of the following BEST describes a process to ensure orphaned child entries do not exist in a database?

1/1

☐ Rehoming

☐ Defragmentation

☐ Deletion

☒ Integrity Check ✓



✓ An organisation holds client data for 2 years after the close of a project. 1/1  
What is this an example of?

☐ Model

☒ Policy ✓

☐ Breach of data protection legislation

☐ Obsolescence

✓ Which of the following BEST describes data migration? 1/1

☐ Transferring data overseas

☐ Storing data in a central repository

☒ Moving data from one system to another ✓

☐ Plotting data using a heatmap

✓ What does decision analytics aim to achieve? 1/1

☐ A clean dataset

☒ A systematic approach to strategic business decisions ✓

☐ A prediction of what might happen

☐ A presentation to key stakeholders



✓ Why is it important to have relevant industry knowledge when engaging in effective data analysis? 1/1

☐ To acquire datasets

☒ To understand the level of quality control required



☐ To protect sensitive information

☐ To understand which type of visualisation is suitable for the data

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