Session Title: **Introductions and Core Concepts** Session No: 1

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| **Learning Objectives:**   1. How to use Workbench tool 2. Core definitions: SQL and DB 3. Understand how development / tech world works and how DB fit into that. Also understand advantages of gaining SQL and DB skills 4. Core syntax to create a new DB and a new table 5. Select and Insert data into a table. |

Session Outline

Please do not change the intro and closing blocks - feel free to add more session blocks as you see fit.

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| **Intro & Framing** Time: 5 mins  What will today’s session be about, what will they be able to do at the end and how will they learn today? |

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| **Session Block Title #1 Workbench DEMO**  Main objectives are:   * to show the panels where DB and tables are displayed –> how to see what DBs we have and what is stored in them * to show where to write code and how to run it * to show where to see output / results of a query * to show where to see the log and error messages |

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| **Session Block Title #2 What is SQL and DB**  Walk though examples to explain how DBs are used and what they are in a nutshell. Talk about the Relational Model and explain what it means based on the example (slide 18). Explain what ‘query’ means and how to interact with a DB. |

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| **Session Block Title #3 Create DB and Tables**  Review examples, explain syntax and create the very first DB with empty tables. |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE ’ slides. See code examples and answers:  **Session Plans / DB\_week1/in-class exercises and demo/module1\_questions\_answers** |

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| **Session Block Title #4** **SELECT and INSERT statements**  Explain the core structure of a SQL query on the SELECT statement example. Demonstrate how to select data from a table. Populate newly created tables with data |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE’ slides. See code examples and answers:  **Session Plans / DB\_week1/in-class exercises and demo/module1\_questions\_answers** |

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| **Recap & Closing** Time: 10 mins  How can you get the learners to articulate what they learned today, celebrate what they achieved and inform them what they need to do as homework? |

**Homework Tasks**

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| Please see the HOMEWORK slide from module1 with listed tasks  Refer to **Session Plans / DB\_week1/homework:**   * There is a file marked ‘students’ that needs to be given to students, so they can complete their homework * Another file is marked ‘instructors’, it explains what exactly is expected from students.   See **Session Plans / DB\_week1/scripts** folder that contains sql scripts with answers for homework and in-class tasks. |

Guide for Instructors

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| General comments |