Session Title: **Basic Coding Syntax and Table Creation Techniques**

Session No: 2

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| **Learning Objectives:**   1. How to set constraints on a table 2. Primary and Foreign Keys 3. Normalisation 4. DDL – (UPDATE, ALTER, DELETE) 5. Learn more complex SELECT statements |

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 SELECT DISTINCS and WHERE**  Introduce new commands and focus on the WHERE clause reviewing various examples.  Complete exercises as listed on PRACTCE slides |

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| **Session Block Title #2 NORMALISATION and CONTRAINTS**  Explain the principles of designing tables and relationships in RDBM  Review different type of constraints focusing on PRIMARY and FOREIGN keys.  Explain how keys affect relationships between the tables in a database. |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE ’ slides. See code examples and answers:  **Session Plans / DB\_week2/in-class exercises and demo/module1\_questions\_answers** |

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| **Session Block Title #3 DDL COMMANDS**  Walk through examples of UPDATE, DELETE, ALTER and DROP tables  Explain how each of these commands work and what are the main difference between them. |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE ’ slides. See code examples and answers:  **Session Plans / DB\_week2/in-class exercises and demo/module2\_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\_week2/homework:**   * File marked ‘instructors’ explains what exactly is expected from students and provides sample answers to homework queries.   See **Session Plans / DB\_week2/scripts** folder that contains sql scripts with answers for homework and in-class tasks. |

Guide for Instructors

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| In-class practice, demo and exercises should be completed together with students, so they can code along, practice SQL syntax and review results.  It is important that during classes we explain every step and our approach to writing a query. |