Session Title: **JOINS and UNIONS**

Session No: 3

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| **Learning Objectives:**   1. Learn different types of JOINS and understand result sets that they produce 2. Learn about UNIONS 3. Understand how to write SUBQUERIES |

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 JOINS**  INNER, OUTER, SELF and CROSS JOINS.  Review examples, diagrams and show demos for each type of JOIN. |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE ’ slides. See code examples and answers:  **Session Plans / DB\_week4/in-class exercises and demo/module4\_questions\_answers** |

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| **Session Block Title #2 UNIONS and Subqueries**  Understand differences between UNION and UNION ALL  Learn about Subqueries and how are they used to retrieve data from a database. |

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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 module4 with listed tasks  Refer to **Session Plans / DB\_week4/homework:**   * File marked ‘instructors’ explains what exactly is expected from students and provides sample answers to homework queries.   See **Session Plans / DB\_week4/scripts** folder that contains sql scripts with answers for homework and in-class tasks. |

Guide for Instructors

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| This weeks homework queries are more complex than before. This is because we are trying to apply new methods of joining, aggregating and subquering data.  You may want to do the first homework question in class. |