Session Title: **VIEWS, STORED PROCEDURES & FUNCTIONS, TRIGGERS, EVENTS**

Session No: 7

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| **Learning Objectives:**   1. How to back up a DB (and why do we need to back up) 2. How to restore a DB from a backup 3. How to export a file (a table) into a non sql file 4. How to create a DB diagram 5. Course Project |

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 DB RESTORE & BACKUP**  First of all, we need to explain the importance of DB back up. Why it is necessary to do on a regular basis.  Another important aspect is to teach students how to back up a single table, the whole DB, multiple DBs and so on. We are going to do that with the help of various business scenarios that students can relate to. They all are described in the module slides.  We are going to use **mysqldump** and **mysql** to perform backup and restore operations. |

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| **Session Block Title #2 Exporting Data to a non SQL file**  Practice exporting table data into a CSV file. Explain how useful it might be.  There are two way of executing data export: through the code and by means of using special ‘shortcut’ features of Workbench. We need to learn both. |
| Relevant Exercise(s):  Complete exercises as explained on the ‘PRACTICE ’ slides. See code examples and answers:  **Session Plans / DB\_week7/in-class exercises and demo/module7\_questions\_answers** |

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| **Session Block Title #3 ER DIAGRAM**  Show students how to create a DB diagram, which shows all relations and dependencies between the tables.  When the diagram is built (if time allows), show how to trace relationships between the tables, how to see any constraints on the tables etc. |
| **Session Block Title #4 PROJECT**  Explain criteria for the course project work.  Tell students how their work will be assesses as well as the deadlines for submitting their work.  Help with any other queries that students may have about the course work. |

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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? |