

Database development and conception

November 18-20, 2019
 Institut Pasteur de Tunis

November 18: Introduction to Databases, concepts

Session	Speakers
9:00-10:15 Introduction to databases <ul style="list-style-type: none"> • Types of modern databases • Relational databases vs non relational • Overview on Entities Relationships 	Kais Ghedira, IPT
10:15-10:40 Coffee break	
10:40-11:40 Environment presentation <ul style="list-style-type: none"> • LAMP • MySQL Workbench 	Kais Ghedira, IPT
11:40-12:00 Relational Database Design Process <ul style="list-style-type: none"> • Define the Purpose of the Database • Designing Tables • Data types 	Kais Ghedira, IPT
12:00-13:30 Lunch	
13:30-15:30 Practical Application <ul style="list-style-type: none"> • Working with Schemas • Creating tables • Editing tables 	Kais Ghedira, IPT Wahbi Belhadj, IPT
15:30-16:00 Coffee break	
16:00-17:00 Practical Application <ul style="list-style-type: none"> • Create the relations between tables and primary keys • Build the database 	Kais Ghedira, IPT Wahbi Belhadj, IPT

November 19: Introduction to MySQL

Session	Speakers
9:00-10:15 Introduction to MySQL client	Kais Ghedira, IPT
10:15-10:40 Coffee break	
10:40-11:40 Mining database using MySQL language <ul style="list-style-type: none"> • Connect To MySQL Database From Command Line • Display a list of databases • Use a database.. 	Kais Ghedira, IPT
11:40-12:00 Mining database using MySQL language <ul style="list-style-type: none"> • Data Definition Statements • Data Manipulation Statements 	Kais Ghedira, IPT
12:00-13:30 Lunch	
13:30-15:30 Hands on session <ul style="list-style-type: none"> • Insert data into a database • Update the database 	Kais Ghedira, IPT Wahbi Belhadj, IPT
15:30-16:00 Coffee break	
16:00-17:00 Hands on session <ul style="list-style-type: none"> • Select and retrieve data from the database • Use conditions WHERE 	Kais Ghedira, IPT Wahbi Belhadj, IPT

November 20: MySQL administration and introduction to PHPMYadmin

Session	Speakers
9:00-10:15 MySQL administration <ul style="list-style-type: none">• Managing users and their privileges	Kais Ghedira, IPT
10:15-10:40 Coffee break	
10:40-11:40 MySQL administration <ul style="list-style-type: none">• Adding a user• Editing a user profile	Kais Ghedira, IPT
12:00-13:30 Lunch	
13:30-15:30 Initiation to PHPMYAdmin	Kais Ghedira, IPT Wahbi Belhadj, IPT
15:30-16:00 Coffee break	
16:00-17:00 Mining database using PHPMYAdmin	Kais Ghedira, IPT Wahbi Belhadj, IPT

November 21: Database security and integrity

Session	Speakers
9:00-10:15 Database security <ul style="list-style-type: none"> • Authentication • Authorization 	Kais Ghedira, IPT
10:15-10:40 Coffee break	
10:40-11:40 Database integrity <ul style="list-style-type: none"> • Entity Integrity • Referential integrity • Domain integrity 	Kais Ghedira, IPT
12:00-13:30 Lunch	
13:30-15:30 Prevent SQL Database Corruption <ul style="list-style-type: none"> • Important steps 	Kais Ghedira, IPT Wahbi Belhadj, IPT
15:30-16:00 Coffee break	
16:00-17:00 Questions and discussions	Kais Ghedira, IPT Wahbi Belhadj, IPT