

## Module: Database Reporting 261

<b>Module name:</b>	Database Reporting 261
<b>Code:</b>	DBR261
<b>NQF level:</b>	6
<b>Type:</b>	Core – Diploma in Information Technology (all stream)
<b>Contact Time:</b>	42 hours
<b>Structured time:</b>	7 hours
<b>Self-directed time:</b>	21 hours
<b>Notional hours:</b>	70 hours
<b>Credits:</b>	7
<b>Prerequisites:</b>	Database Development 262

### Purpose

The course covers Reporting and Reports creation. It provides arrays of posting and security features that controls the access of reports.

The course will look at types of reporting services, examples of reporting during which students will configure data sources, create and format reports while considering report parameters and global report variables. Students should be able to create sub-reports, charts and export these for further use. Students will be exposed to different reporting platforms that support the various reporting activities discussed during the course.

### Outcomes

Upon successful completion of this module, the student will be able to:

- Demonstrate an informed understanding of reporting, types of reporting, and an informed understanding of the key terms, concepts, facts, general principles, rules, and features thereof.
- The ability to understand and utilize a range of Reporting Definition Language elements for creating and formatting report.
- Select and apply standard methods, procedures, or techniques within a reporting type, and create, format and manage a reporting process within a well-defined, familiar, and supported environment.
- Identify, evaluate and solve defined, routine, and new problems requiring reporting, and apply relevant reporting features appropriate to the selected type, demonstrating an understanding of the consequences.

### Assessment

- Evaluation of theoretical work through a summative test.
- Continuous evaluation of project work, where the student must design, manage and report on the evaluation of testing methodologies and the selection of an appropriate methodology for a given scenario, justifying the choice made with well-formed arguments and evidence.
- Final assessment through a written examination.

- The assignments or projects collectively will count 30% of your class mark.
- All tests will collectively account for 70% of your class mark.
- Your class mark contributes 30% towards your final mark for the subject, while the final assessment accounts for 70% of your final mark.

## Teaching and Learning

### Learning materials

#### Prescribed books (EBSCO)

- 📖 **Serra, J., Anton, B., (2014) Reporting with Microsoft SQL Server 2012. In Professional Experience Distilled series. Birmingham, UK : Packt Publishing**

#### Additional Material

- 📖 **Larson, B., (2016) Microsoft SQL Server 2016 Reporting Services (5th Ed)**

### Learning activities

The teaching approach will use a combination of exercises, theory presentations and whole group discussions. It is a collaborative model with a practical approach, with one mandatory project which must be completed during the module.

### Notional learning hours

Activity	Units	Contact Time	Structured Time	Self-Directed Time
Lecture		27.0		7.0
Formative feedback		9.0		
Project	1	6.0		6.0
Test	2		4.0	8.0
Exam	1		2.0	6.0
		<b>42.0</b>	<b>6.0</b>	<b>30.0</b>

### Syllabus

- Types of reporting
- Report creation
- Configuring data sources
- Report sections and groups
- Formatting and formula options in reporting
- Understanding report parameters and global report variables
- Creating sub-reports, charts and drilldown capabilities,
- Exporting reports, matrix and cross-tab objects.