

Module: Database Reporting 361

Module name:	Database Reporting 361
Code:	DBR361
NQF level:	6
Type:	Speciality – Diploma in Information Technology (Database)
Contact Time:	42 hours
Structured time:	7 hours
Self-directed time:	21 hours
Notional hours:	70 hours
Credits:	6
Prerequisites:	DBD361

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

- Continuous evaluation of theoretical work through written assignments, a formative, and a summative test.
- Final assessment through a written examination.

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 two mandatory assignments which must be completed during the module.

Notional learning hours

Contact	Distance	Other	Type of learning activities	% Learning
y	y	n	Lectures (face-to-face, limited interaction or technologically mediated)	40%
y	y	n	Tutorials: individual groups	20%
n	y	n	Syndicate groups	10%
n	y	n	Independent self-study of standard texts and references (study guides, books, journal articles)	10%
n	y	n	Independent self-study of specially prepared materials (case studies, multi-media, etc.	20%

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.