

NEPAL COLLEGE OF INFORMATION TECHNOLOGY

Balkumari , Lalitpur



(Affiliated to Pokhara University)

A Lab Report

On

Subject: *DBMS*



Lab Report # : *03*

Title: *DATA TYPES IN SQL*

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Year/ Semester: *4 th sem*

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DATA TYPES IN SQL

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The 'Object Explorer' on the left shows the server structure for 'LAPTOP-CRINO9SI (SQL Server 16.0.1115)'. The 'Query Editor' in the center contains a SQL script that declares and selects values for various data types. The 'Results' pane at the bottom shows the output of the query, which consists of five rows, each representing a different data type and its corresponding value.

```
SQLQuery1.sql - LAPTOP-CRINO9SI\master (LAPTOP-CRINO9SI\ACER (84)) - Microsoft SQL Server Management Studio
```

Object Explorer: LAPTOP-CRINO9SI (SQL Server 16.0.1115)

- Databases
- Security
- Server Objects
- Replication
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

```
SQLQuery1.sql - L...RINO9SI\ACER (84) - x
```

```
declare @id as int -5
select @id as int_datatype

declare @roll as bigint -1000000000000
select @roll as int_datatype

declare @grade as float -3.999
select @grade as float_datatype

declare @gradee as decimal(3,49)
select @gradee as float_datatype

declare @gender as char -'M'
select @gender as char_datatype
```

100 %

Results Messages

	int_datatype
1	5

	int_datatype
1	1000000000000

	float_datatype
1	-3.999

	float_datatype
1	3

	char_datatype
1	M

Query executed successfully.

LAPTOP-CRINO9SI (16.0 RTM) LAPTOP-CRINO9SI\ACER (84) | master | 00:00:00 | 5 rows

Ready 27°C Partly sunny 11:24 AM 19/05/2024

SQLQuery1.sql - LAPTOP-CRINO9SI\master (LAPTOP-CRINO9SI\ACER (84)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect LAPTOP-CRINO9SI (SQL Server 16.0.1115)

- Databases
- Security
- Server Objects
- Replication
- Always On High Availability
- Management
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```
declare @gender as char = 'M'
select @gender as char_datatype

declare @code as varchar(9) = 'run009'
select @code as varchar_datatype

declare @T AS time = '09:54:22'
select @T as time_datatype

declare @D AS date = '2024-09-01'
select @D as date_datatype

declare @TD AS DATETIME = '2024-09-01 09:54:22 '
select @TD as DATETIME_datatype
```

Results Messages

	varchar_datatype
1	run009

	time_datatype
1	09:54:22.0000000

	date_datatype
1	2024-09-01

	DATETIME_datatype
1	2024-09-01 09:54:22.000

Query executed successfully.

LAPTOP-CRINO9SI (16.0 RTM) LAPTOP-CRINO9SI\ACER (84) master 00:00:00 4 rows

Ready 27°C Partly sunny Search 11:25 AM 19/05/2024

SQLQuery1.sql - LAPTOP-CRINO9SI.master (LAPTOP-CRINO9SI\ACER (84)) - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help

New Query Execute

Object Explorer

Connect

LAPTOP-CRINO9SI (SQL Server 16.0.1115)

Databases

Security

Server Objects

Replication

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler

SQLQuery1.sql - L..RINO9SI\ACER (84))

declare @TD AS DATETIME='2024-09-01 09:54:22 '
select @TD as DATETIME_datatype

declare @true_false AS bit = 3
select @true_false as boolean_datatype

declare @detail as nchar(10) = 'student03'
select @detail as varchar_datatype

100 %

Results Messages

boolean_datatype

1 1

varchar_datatype

1 student03

Query executed successfully.

LAPTOP-CRINO9SI (16.0 RTM) LAPTOP-CRINO9SI\ACER (84) master 00:00:00 2 rows

Ready

Ln 28 Col 1 Ch 1 INS

27°C Partly sunny

Search

ENG US

11:25 AM 19/05/2024