



## CSE 311L(Database Management System)

### LAB-Week 01(Part A)

**Instructor:** Nazmul Alam Diptu

#### Objectives:

After completing this lesson, you should be able to do the following:

- ▶ Create database tables
- ▶ Describe the data types that can be used when specifying column definition
- ▶ Table naming rules & Fields Datatypes

#### Table Naming Rules

Table names and column names:

- ▶ Must begin with a letter
- ▶ Must be 1–30 characters long
- ▶ Must contain only A–Z, a–z, 0–9, \_, \$, and #
- ▶ Must not duplicate the name of another object
- ▶ owned by the same user
- ▶ Must not be a server reserved word

#### CREATE DATABASE Statement

```
CREATE DATABASE cse311_summer21;  
SHOW DATABASES;  
drop DATABASE cse311_summer21;
```

#### CREATE TABLE Statement

```
CREATE TABLE [schema.]table  
(column datatype [DEFAULT expr] [, ...]);
```

#### Activity 01:

Write SQL statement for create the 'Employees' table:

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(6)
FIRST_NAME		VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(25)
EMAIL	NOT NULL	VARCHAR2(25)
PHONE_NUMBER		VARCHAR2(20)
HIRE_DATE	NOT NULL	DATE
JOB_ID	NOT NULL	VARCHAR2(10)
SALARY		NUMBER(8,2)
COMMISSION_PCT		NUMBER(2,2)
MANAGER_ID		NUMBER(6)
DEPARTMENT_ID		NUMBER(4)



## CSE 311L(Database Management System)

### LAB-Week 01(Part B)

Instructor: Nazmul Alam Diptu

#### Objectives:

After completing this lesson, you should be able to do the following:

- ▶ Insert rows into the created table
- ▶ Create Department Table
- ▶ Execute a basic SELECT statement

#### The INSERT Statement Syntax

```
INSERT INTO table [(column [, column...])]  
VALUES (value [, value...]);
```

#### Activity 01:

Write SQL statement for create the 'Departments' table:

Name	Null?	Type
DEPARTMENT_ID	NOT NULL	NUMBER(4)
DEPARTMENT_NAME	NOT NULL	VARCHAR2(30)
MANAGER_ID		NUMBER(6)
LOCATION_ID		NUMBER(4)

#### Activity 02:

Write SQL statement for INSERT two employees' data into the employees table you create earlier.

#### Activity 03:

Write SQL statement for INSERT two Departments' data into the Departments table you just created.