EXERCISE-1 Creating and Managing Tables

OBJECTIVE AIM: To create and Manage Tables in SQL

After the completion of this exercise, students should be able to do the following:

- Create tables
- Describing the data types that can be used when specifying column definition
- Alter table definitions
- Drop, rename, and truncate tables

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, _, S, and #
- Must not duplicate the name of another object owned by the same user
- Must not be an oracle server reserve words
- 2 different tables should not have same name.
- Should specify a unique column name.
- Should specify proper data type along with width
- Can include "not null" condition when needed. By default it is 'null'.

The CREATE TABLE Statement

Table: Basic unit of storage; composed of rows and columns

Syntax: 1 Create table table_name (column_name1 data_type (size) column_name2 data_type (size)....);

Syntax: 2 Create table table_name (column_name1 data_type (size) constraints, column_name2 data_type constraints ...);

Example:

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Create table employlees (employee_id number(6), first_name varchar2(20), ..job_id varchar2(10), CONSTRAINT emp_emp_id_pk PRIMARY KEY (employlee_id));

Tables Used in this course

Creating a table by using a Sub query

SYNTAX

JOB GRADE TABLE

NAME	NULL?	ТУРЕ	
Grade level		Varchar(2)	
Lowest sal		Number	-
Highest sal		Number	

LOCATION TABLE

NAME	NULL?	TYPE
Location id	Not null	Number(4)
St_addr	7.5.3,4,1	Varchar(40)
Postal code		Varchar(12)
City	Not null	Varchar(30)
State_province		Varchar(25)
Country id		Char(2)

Create the DEPT table based on the DEPARTMENT following the table instance chart

Column name	ID	NAME	
Key Type			
Nulls/Unique			
FK table			
FK column			
Data Type	Number	Varchar2	
Length	7	25	

CREATE TABLE DEPT (
ID Number (7),
NAME Varcher 2 (25));

Output: Table created Create the EMP table based on the following instance chart. Confirm that the table is created.

Column name	ID	LAST_NAME	FIRST NAME	DEPT_ID
Key Type	والمساوي النو			
Nulls/Unique				
FK table				
FK column				
Data Type	Number	Varchar2	Varchar2	Number
Length	7	25	25	7

CREATE TABLE LONG Number (7) he various (25), first-name barchare (25),

Modify the EMP table to allow for longer employee last names. Confirm the modification.(Hint: Increase the size to 50)

ALTER TABLE EMP MODIFY Last-Name vardors (50).
Fulhut: Table Altered

Create the EMPLOYEES2 table based on the structure of EMPLOYEES table. Include Only the Employee id, First name, Last name, Salary and Dept id coloumns. Name the columns Id, First_name, Last_name, salary and Dept_id respectively. Create Table employees 2 AS id, first_rome, but_rome, salary, Dept_id as dept_id FROM employees; output: Table Employees 2 created Drop the EMP table. 5. DROP TABLE EMP; output: Table EMI wropped Rename the EMPLOYEES2 table as EMP. 6. ALTER TABLE employees 2 mondan RENAMETO EMP; Add a comment on DEPT and EMP tables. Confirm the modification by describing the 7. table. COMMENT ON THREE DEPT IS" Department details including ID, name, and location".

E OMMENT ON TABLE EMP IS Employee details including
TO, name and department; Output: comment added to table DEPT.

Drop the First_name column from the EMP table and confirm it. 8. ALTER TABLE EMP DROP COLUMN first_name; output: Column FIRST-NAME dropped from table EMP. porthus the tables are created and managed in SQL Marks awarded **Evaluation Procedure**

Query(5)

Viva(5)

Execution (5)

IO	Last_nome		merid	Salary 895
1	Patel	Ralph	reated	860
3	Biri	Betty	bliri	1100
4	Newman	Chad	Cheuman	750

6.

ID	last-nom	First name	e merid	Salary
1	Patel	Rall	reated	895
2	Danes	Betty	bdanu	860
3	preder	- /	bhisi	1100
4	Newmon		chewman	

7.

TO	Cast - nome	First-1900	Cuenis	Salary
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2		Betty		1000
3	Drinder	Ben	this	1000
4	Newman	chad	Meumon	1000

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ID	Lost - name	P:			
1	Patel	First-mane	mer id	Salary	
2		palple	readel	1000	
3	Drinler	Ben	shiri	1100	
4	Newman	chad	The second second	888	
ID	last - some	Finet a.		000	

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70	1. 1.		1000		
ID	last-rome	First-rane	merid	Solary	
1	Patel	Kalph	21 Patel	W. L	
3	Oresder	Ren	Cheuman	1000	
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