PRACTICAL-3

Objective: At the end of the assignments, participants will be able to understand basic DDL, Create table with constraints, Alter, Truncate, Drop and Rename

Write the syntax to create the grad_candidates table.

Confirm creation of the table

create table

grad_candidates(student_idnumber(6,0),last_name

varchar(30),first_name varchar2(10),credits

number(3,0),graduation_date date);

describe grad_candidates;

Object Type **TABLE** Object **GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
									1 - 5

Create a new table using grad_candidates with the following syntax: CREATE TABLE o_grad_candidates AS(SELECT * FROM grad_candidates);
create table o_grad_candidates AS(SELECT*FROM grad_candidates);
describe o_grad_candidates;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **O_GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
O_GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
									1 - 5

Create a new table using a subquery. Name the new table your first name -- e.g., Anshu_table. Using a subquery, copy grad_candidates into Anshu_table.
create table Anshu_table AS(SELECT*FROM grad_candidates);
describe Anshu_table;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **ANSHU_TABLE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ANSHU_TABLE	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	GRAD_CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	START_DATE	Timestamp(6) With Local Time Zone	11	-	6	-	✓	-	-
									1 - 6

In your o_grad_candidates table, enter a new column called "adm_date." The datatype for the new column should be VARCHAR2. Set the DEFAULT for this column as SYSDATE.
alter table o_grad_candidates add adm_date varchar2(30) default SYSDATE;

describe o_grad_candidates;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **O_GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
O_GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	ADM_DATE	Varchar2	30	-	-	-	✓	SYSDATE	-

1 - 6

In your o_grad_candidates table, increase the length of last_name column by 10 and remove the credits column.

alter table o_grad_candidates modify last_name varchar(10);

describe o_grad_candidates;

alter table o_grad_candidates drop column credits;

describe o_grad_candidates;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **O_GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
O_GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	10	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	ADM_DATE	Varchar2	30	-	-	-	✓	SYSDATE	-

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Create a new column in the smith_table table called start_date. Use the TIMESTAMP WITH LOCAL TIME ZONE as the datatype.

alter table Anshu_table add start_date TIMESTAMP WITH LOCAL TIME ZONE;

describe Anshu_table;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **ANSHU_TABLE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ANSHU_TABLE	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	GRAD_CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	START_DATE	Timestamp(6) With Local Time Zone	11	-	6	-	✓	-	-

1 - 6

Write syntax to change the name of credit column by grad_credit.

alter table Anshu_table rename column credits to grad_credits;

describe Anshu_table;

Results   Explain   **Describe**   Saved SQL   History

Object Type **TABLE** Object **ANSHU_TABLE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ANSHU_TABLE	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	30	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	GRAD_CREDITS	Number	-	3	0	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	START_DATE	Timestamp(6) With Local Time Zone	11	-	6	-	✓	-	-

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Rename o_grad_candidates to n_grad_candidates.

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alter table o_grad_candidates rename to n_grad_candidates;
describe n_grad_candidates;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **N_GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
N_GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	10	-	-	-	✓	-	-
	FIRST_NAME	Varchar2	10	-	-	-	✓	-	-
	GRADUATION_DATE	Date	7	-	-	-	✓	-	-
	ADM_DATE	Varchar2	30	-	-	-	✓	SYSDATE	-
									1 - 5

alter table o_grad_candidates rename to n_grad_candidates;
describe n_grad_candidates;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **N_GRAD_CANDIDATES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
N_GRAD_CANDIDATES	STUDENT_ID	Number	-	6	0	-	✓	-	-
	LAST_NAME	Varchar2	10	-	-	-	✓	-	-

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