## **WORKING WITH CONSTRAINTS**

DATE :21.08.2024

Exp no: 04

Find the Solution for the following:

1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my\_emp\_id\_pk.

ALTER TABLE EMP ADD CONSTRAINT my\_emp\_id\_pk PRIMARY KEY (ID);

Object Type TABLE Object EMPSS										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
<u>EMPSS</u>	NAME	VARCHAR2	50	-	-	-	~	-	-	
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-	
1 - 2									- 2	

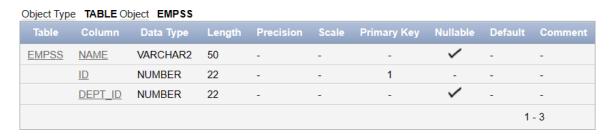
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

ALTER TABLE DEPT ADD CONSTRAINT my\_dept\_id\_pk PRIMARY KEY (ID);

Object Type TABLE Object DEPTS										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
DEPTS	NAME	VARCHAR2	50	-	-	-	~	-	-	
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-	
								1	- 2	

3. Add a column DEPT\_ID to the EMP table.

ALTER TABLE EMPSS ADD DEPT\_ID NUMBER;



Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint

my\_emp\_dept\_id\_fk.

ALTER TABLE EMPSS
ADD CONSTRAINT my\_emp\_dept\_id\_fk
FOREIGN KEY (DEPT\_ID)
REFERENCES DEPTS(ID);

- 4. Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision
- 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

## ALTER TABLE EMP ADD COMMISSION NUMBER(2,2);

Obie	ect Tv	/pe	TABLE	Object	<b>EMPSS</b>

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	-	-	-	~	-	-
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-
	DEPT_ID	NUMBER	22	-	-	-	~	-	-
	COMMISSION	NUMBER	-	2	2	-	/	-	-
								1	- 4

## ALTER TABLE EMP ADD CONSTRAINT chk\_commission\_positive CHECK (COMMISSION > 0);

Object Type TABLE Object EMPSS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	-	-	-	~	-	-
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-
	DEPT_ID	NUMBER	22	-	-	-	~	-	-
	COMMISSION	NUMBER	-	2	2	-	~	-	-
								1	- 4