Ex. No:4 Roll No: 230701102

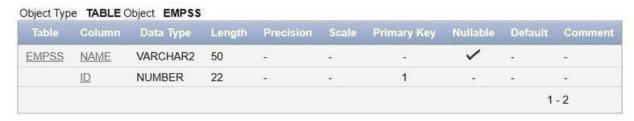
Date:21/08/2024 Name: HARINI.P

## WORKING WITH CONSTRAINTS

Find the Solution for the following:

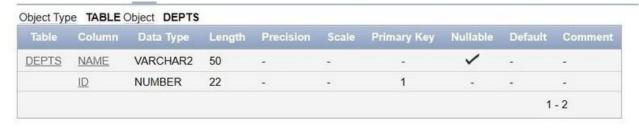
1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my\_emp\_id\_pk.

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



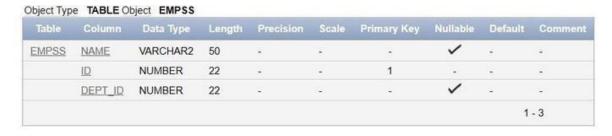
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

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



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

ALTER TABLE EMPSS
ADD DEPT\_ID NUMBER;



4. 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);

5. 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);



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

Object Type TABLE Object EMPSS

Table	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	121	120	-	/	12	-
	<u>ID</u>	NUMBER	22	-		1	-	20	2
	DEPT_ID	NUMBER	22		-	-	/	-	-
	COMMISSION	NUMBER		2	2	2	/	4	
								1	- 4