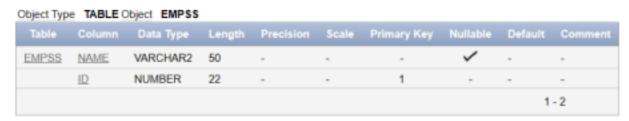
name: RAMANITHARAN S 231901040 Exp no: 04 WORKING WITH CONSTRAINTS

DATE: 21.08.2024

Find the Solution for the following:

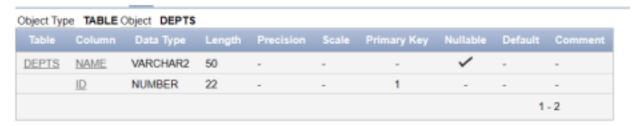
1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my\_emp\_id\_pk.

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



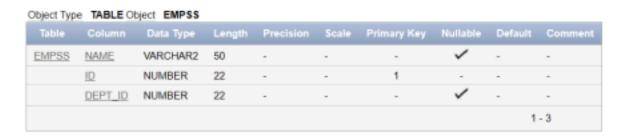
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

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;



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);

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