Ex. No:4 Roll No: 231901004

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# **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);

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPSS	NAME	VARCHAR2	50	Ш	-	12	/	_	Ш
	<u>ID</u>	NUMBER	22	+	-	1	+	-	÷

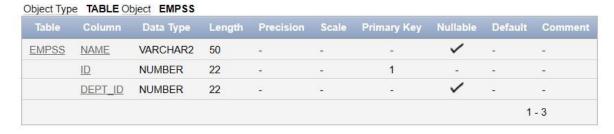
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

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

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>DEPTS</u>	NAME	VARCHAR2	50	-	-	÷.	/		+
	ID	NUMBER	22	. 5	-	1	-	-	15

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);

Object Type	TABLE Object	EMPSS							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50		-	2	/	2	
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-
	DEPT_ID	NUMBER	22	-	_	(1 <u>11</u> )	/	2	_
	COMMISSION	NUMBER	-	2	2	121	/	-	-
								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	-	-	10:	/	2	-
	<u>ID</u>	NUMBER	22	-	-	1	-	-	-
	DEPT_ID	NUMBER	22	: <del>=</del> %	-		~	3	.=v
	COMMISSION	NUMBER		2	2	4 <u>-</u> -	/	2	_
								1	- 4