Ex.No	o.: 4	WORKING WITH CONSTRAINTS
Date:	13/8/24	

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.

CREATE TABLE EMP (EmpNo NUMBER(7) PRIMARY KEY, Last\_name VARCHAR2(25) NOT NULL,First\_name VARCHAR2(25));

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	<u>ID</u>	NUMBER	3	6	0	1	<u>:</u>	-	-
	LAST_NAME	VARCHAR2	25	*	:#:	-	~	<b></b> .	-
	SALARY	NUMBER	l <del>.</del>	8	2	1.5	/	( <del>-</del> 8)	

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.

CREATE TABLE DEPT (Dept\_id NUMBER(6) NOT NULL,Dept\_name VARCHAR2(20) NOT NULL,Manager\_id NUMBER(6), Location\_id NUMBER(4),CONSTRAINT my\_dept\_id\_pk PRIMARY KEY (Dept\_id));

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	DEPT_ID	NUMBER		6	0	1	.=	<del>9</del> 48	
	DEPT_NAME	VARCHAR2	20	4	() <b>4</b> )	12	-	2018 2018	
	MANAGER_ID	NUMBER	-	6	0	S.T.	/	37 <b>.</b>	-
	LOCATION_ID	NUMBER	-	4	0	<u> </u>	/	-	19

3. Add a column DEPT\_ID to the EMP table. 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 EMP ADD Dept\_id NUMBER(6); ALTER TABLE EMP ADD CONSTRAINT my\_emp\_dept\_id\_fk FOREIGN KEY (Dept\_id) REFERENCES DEPT (Dept\_id);

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	EMPNO	NUMBER	-	7	0	1	<del>-</del>	· <del>=</del>	7
	LAST_NAME	VARCHAR2	25	15	: <del>7</del> .6	-		<del></del>	
	FIRST_NAME	VARCHAR2	25	6 <u>4</u> 1	1201 1201	:=	~	_	is .
	DEPT_ID	NUMBER	-	6	0	-	/	-	-

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(8,2) CONSTRAINT commission\_check CHECK (Commission > 0);

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP	<u>EMPNO</u>	NUMBER	-	7	0	1	:- <u>-</u> -	-	-
	LAST_NAME	VARCHAR2	25	(2)	-	6 <b>-</b> 0	6 <b>4</b> )	=	<u>=</u>
	FIRST_NAME	VARCHAR2	25	-		( <del>-</del> ))	/	=	-
	DEPT_ID	NUMBER	18	6	0	-	~		8
	COMMISSION	NUMBER	-	8	2	~	/	_	2