Exp-4

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Ex.No.: 4		WORKING WITH CONSTRAINTS
Date:	16/08/2024	

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 EMP1

add constraint my\_emp\_id\_pk PRIMARY KEY(ID);

Object Type TABLE Object EMPL

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Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPL	EMPLOYEE_ID	VARCHAR2	4	-	-	1	-	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	~	-	-
	JOB_CODE	VARCHAR2	4	-	-	-	~	-	-
	SAL	NUMBER	-	9	0	-	/	-	-
	HIRE_DATE	DATE	7	-	-	-	/	-	-
	DEPT_ID	VARCHAR2	4	-	-	-	~	-	-
								1	- 6

2) Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraintshould 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 DEPT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	<u>ID</u>	NUMBER	-	7	0	1	-	-	Should only be numbers
	<u>NAME</u>	VARCHAR2	25	-	-	-	~	-	-
									1 - 2

3) Add a column DEPT\_ID to the EMP table. Add a foreign key reference on the EMP tablethat ensures that the employee is not assigned to nonexistent department. Name the constraint my\_emp\_dept\_id\_fk.

alter table emp

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alter table emp add constraint my_emp_dept_id_fk FOREIGN KEY(DEPT_ID) references dept(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);

alter table emp add CONSTRAINT commission\_gt\_zero CHECK(COMMISSION > 0);

## Object Type TABLE Object EMPL

	pe INDEE Object								
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPL	EMPLOYEE_ID	VARCHAR2	4	-	-	1	-	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	/	-	-
	JOB_CODE	VARCHAR2	4	-	-	-	~	-	-
	SAL	NUMBER	-	9	0	-	/	-	-
	HIRE_DATE	DATE	7	-	-	-	/	-	-
	DEPT_ID	VARCHAR2	4	-	-	-	~	-	-
	COMMISSION	NUMBER	-	2	2	-	~	-	-
								1	- 7

