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Exp no: 04

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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
<u>EMPSS</u>	NAME	VARCHAR2	50		-	-	/	<del>121</del>	-
	ID	NUMBER	22	5 <b>-</b> 0	1071	1		175	4 <b>-</b> 3

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
DEPTS	NAME	VARCHAR2	50	+	-	æ	/	÷	-
	ID	NUMBER	22	.5	3 <del>2</del> 0	1	-	-	-

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

ALTER TABLE EMPSS ADD DEPT\_ID NUMBER;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	-	( <del>-</del> )	-	/	-	-
	<u>ID</u>	NUMBER	22	(5)	-	1	520	5	1 <del>2</del> %
	DEPT_ID	NUMBER	22	-	-	-	/	4	(4)
								1	- 3

Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint

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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	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	-		-	/	3 <del>-</del> -	: <del>-</del> :
	<u>ID</u>	NUMBER	22	2.52	-	1	70	1.2	175
	DEPT_ID	NUMBER	22	245	-	÷	~	-	- 2
	COMMISSION	NUMBER		2	2		/	4	1 -1
								1	- 4

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

Object Typ	e <b>TABLE</b> Object	EMPSS							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<b>EMPSS</b>	<u>NAME</u>	VARCHAR2	50		-	-	/	-	
	<u>ID</u>	NUMBER	22	2. <del>5</del> /	5	1	70	· =	2.74
	DEPT_ID	NUMBER	22	125	-	<b>=</b>	/		2.25
	COMMISSION	NUMBER	-	2	2	÷	/	-	-
								1	- 4