NAME: S.ARULRAJAN REG NO: 230701035

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	-		-	/	iii.	-
	ID	NUMBER	22	.=:	0.50	1	-	-	1.T.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
DEPTS	NAME	VARCHAR2	50	÷	-	Ħ	/	÷	-
	ID	NUMBER	22	-	1.50	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> )	(5)	/	-	:=
	<u>ID</u>	NUMBER	22	\$ <b>5</b> .6	1.7	1	950	s	:5t
	DEPT_ID	NUMBER	22	-	(4)	· ·	/	-	-
	<u>DCI 1_ID</u>	NOMBER	22					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	-	×	-	/		-
	<u>ID</u>	NUMBER	22	2.52	7	1	54	1.77	2172
	DEPT_ID	NUMBER	22	125	-	÷	~	-	125
	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	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	NAME	VARCHAR2	50	- <del>-</del> -	-	*	/	13 <del>-5</del> 12	- + <u>.</u>
	<u>ID</u>	NUMBER	22	2.52	5	1	Sa	5 <del>2</del> 9	15
	DEPT_ID	NUMBER	22	2.25	2	2	~		225
	COMMISSION	NUMBER	-	2	2	÷	/	-	
								1	- 4