NAME: AKSHAY VENKAT KRISHNA REG NO: 230701022

Exp no: 04

DATE: 21.08.2024

WORKI NG 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	+.	-	+	/	i 	-
	<u>ID</u>	NUMBER	22	,=;	V.50	1	1 .	15	AT 0

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	+	-	**	/	÷	-
	ID	NUMBER	22			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		:=:	-	/) -	:=:
	<u>ID</u>	NUMBER	22	(5)	-	1	97.0	5	\$ 3 %
	DEPT_ID	NUMBER	22	-	(4 <u>4</u>)	-	/	2	(4)

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

C2 - Restricted use

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);

Table	e TABLE Object Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPSS	NAME	VARCHAR2	50		-	E.	/	-	-
	<u>ID</u>	NUMBER	22	2.74	5	1			2.74
	DEPT_ID	NUMBER	22	12	2	2	/	-	- =
	COMMISSION	NUMBER	141	2	2	_	/	-	-

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 -5 1	-
	<u>ID</u>	NUMBER	22	15	ē	1	50	5 2 9	2.55
	DEPT_ID	NUMBER	22	12	-	2	~		12
	COMMISSION	NUMBER	0-0	2	2	-	/	34.	-
								1	- 4