AIM: To include constraints in the table.

6/9/25

EXERCISE-3

INCLUDING CONSTRAINTS

OBJECTIVE

After the completion of this exercise the students should be able to do the following

- Describe the constraints
- Create and maintain the constraints

What are Integrity constraints?

- Constraints enforce rules at the table level.
- Constraints prevent the deletion of a table if there are dependencies

The following types of integrity constraints are valid

- Domain Integrity
- √ NOT NULL
- √ CHECK
- b) Eatity Integrity
- ✓ UNIQUE
- ✓ PRIMARY KEY
- c) Referential Integrity
- √ FOREIGN KEY

Constraints can be created in either of two ways

Find the Solution for the following:

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 Employee ADD contraint my_emp_id_Pk Porimary Key (ID);

output: Table altered

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 KEYCID; Table aftered

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 employee ADD DEAT ID Number; output: Table olbered FORE IGN KEY (DEAK-ID) REFERENCES DEFFCIOS;

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 THBLE employee ADD CONSTRAINT chk - commission CHECK (COMMISSION >0)

output:

Table aftered

RESULT:

Thus the constraints are created and described

Evaluation Procedure	Marks awarded
ouery(5)	5
execution (5)	5
Viva(5)	3
Total (15)	13
Faculty Signature	of the second

PRACTICE QUESTIONS

Limit Rows Selected

Clobal Fast Foods datal	pase, retrieve the customer's first name	, last name, and address
for the customer who uses ID 456.	, 1- nome, address	prom amondo
where custome	n -id = 456;	nal item "ballpen and

Show the name, start date, and end date for Global Fast Foods' promotional item "ballpen and highlighter" giveaway.

hter giveaway.

Select promo - nome, statit - date, end - date FROM

Select promo - nome = ballyen and highlighter

promotions where promo - nome = jive away;

3. Create a SQL statement that produces the following output:

The 1997 recording in our database is The Celebrants Live in Concert

select The 1997 rewring in our database is the celebrants Live in concert' As oldert from duel;

4. The following query was supposed to return the CD title "Carpe Diem" but no rows were returned. Correct the mistake in the statement and show the output.

SELECT produce, title FROM d_cds WHERE title = 'carpe diem'; select producer, title from d. colo where tritle = cure Diem'

first name (fname),
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students
students
any student who h
ber.
Der.
Last FRAM
hun From
ne table named
genta = 'm;
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and's CDs that were
and a cus that were
producer.
born before 1980.
orn before 1980.
and I was
employer
er < 1980;
(1900)
i
The same of the sa

5. The manager of DJs on Demand would like a report of all the CD titles and years of CDs that were

Select title, year from man (DS where year <2000,

and

Practice Evaluation (5)	5
Viva(5)	5
Total (10)	60
Faculty Signature	No.