Total (15)
Faculty Signature

Rosult:

#### EXERCISE-2

## MANIPULATING DATA

OBJECTIVE AIM: To Maripulate Data using DML statement in

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

- Describe each DML statement
- Insert rows into tables
- Update rows into table
- Delete rows from table
- Control Transactions

A DML statement is executed when you:

- Add new rows to a table
- Modify existing rows
- Removing existing rows

A transaction consists of a collection of DML statements that form a logical unit of work.

## To Add a New Row

INSERT Statement

#### Syntax

INSERT INTO table\_name VALUES (column1 values, column2 values, ..., columnn values);

#### Example:

INSERT INTO department (70, 'Public relations', 100,1700);

#### Inserting rows with null values

Implicit Method: (Omit the column)

INSERT INTO department VALUES (30, 'purchasing');

### Explicit Method: (Specify NULL keyword)

INSERT INTO department VALUES (100, 'finance', NULL, NULL);

## Inserting Special Values

#### Example:

Using SYSDATE

INSERT INTO employees VALUES (113, 'louis', 'popp', 'lpopp', '5151244567', SYSDATE, 'ac\_account', 6900, NULL, 205, 100);

## Find the Solution for the following:

Create MY EMPLOYEE table with the following structure

NAME	NULL?	ГҮРЕ
	Not null	Number(4)
ID	Not nan	Varchar(25)
Last_name		Varchar(25)
First_name		Varchar(25)
Userid		Number(9,2)
alary		promote y

Add the first and second rows data to MY\_EMPLOYEE table from the following sample

data	a	Total Control of the	er. atd	salary
ID	Last name	First_name	Userid	
1	Patel	Ralph	rpatel	895
2	Danes	Betty	bdanes	860
2		Ben	bbiri	1100
3	Biri	Chad	Cnewman	750
4	Newman	AND DESCRIPTION OF THE PARTY OF	aropebur	1550
5	Ropebur	Audrey	aropeour	11000

Display the table with values.

Select \* From MY\_ EMPLOYEE;

Populate the next two rows of data from the sample data. Concatenate the first letter of the first name with the first seven characters of the last name to produce Userid.

LNSERT INTO MY-EMPLOXEE (ID, Last-rame, First-rame, Wirid, solvy) VAL VES (3, Biri, Ben, SUBSTR(First-rame, 1,1) 11 SUBSTR (Last-rame, 1, U, 1/100), (4, Newman, Clast, SUBSTR (First-rame, 1,1) 11 SUBSTR (Last-rame, 1,2), 1500;
Make the data additions permanent.

COMMIT;

5.

6.

Change the last name of employee 3 to Drexler.

UPDATE MY-EMPLOYEE SET LANG- Nome = 'Dresder'
WHERE ID = 3;

31

4)

ID	None
Number (7)	Yorkon 2 (70)
1 - 19	
- 2777	

2) Table column Balalyse Modellade Promytog

Fry ID Number (1,0) Y

First rome Northon 2 (25) Y

wit none various (25) Y

path id Number (7) Y

Nullable Primary Pay Data type Column Table Number (60) Employees 1 Id Varchana (20) First rome Last - rome Narellan 2(10) Salary Number (1/1) Y. 330 m DENt in Number (4,0)

Table column Dalatyne Nullable Primary Rg.

I MP Id Number (8,2) N

Solary Number (8,2) Y

Dept id Number (4,9) Y

1. CREATE TABLE MY\_EMPLOYEE( 2. INSERT INTO

ID NUMBER(4) Not NULL, MY-EMPLOYEE(ID, Lots)

Lost-name Varchar (2.5), First-name, world, salary

VALUES (1, Patel; Patel; robs),

VALUES (1, Patel; Patel; robs),

Salary Number (9,2) (2, Dancs; Betty; odens; 86),

Change the salary to 1000 for all the employees with a salary less than 900.

WHERE salvy < 900;

8. Delete Betty dancs from MY \_EMPLOYEE table.

DELETE FROM MY\_EMPLOYEE WHERE First\_rame = 'Betty' AND Lost\_name = 'Dance'; 1

9. Empty the fourth row of the emp table.

DELETE FROM MY\_EMPLOYEE WHERE ID = 4; 1 UPDATE MY \_EMPLOYEE SET Last\_name = NULL, FULL name = NULL, Userid = NULL, Salary = NULL WHERE ID = 4;

RESULT:

Thus the data is manipulated in SQL

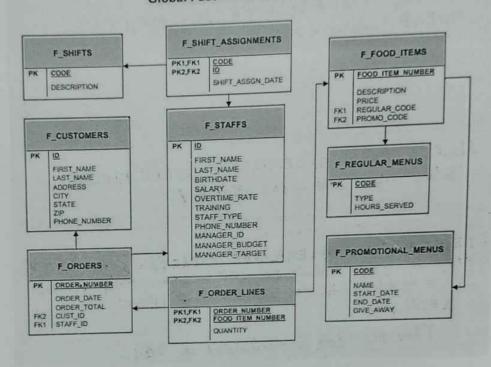
Evaluation Procedure	Marks awarded	
Query(5)	5	
Execution (5)	5	
Viva(5)	5	
Total (15)	15	
Faculty Signature	Que	

## PRACTICE QUESTIONS

Date: 30-07-25

Working with Columns, Characters, and Rows

# **Global Fast Foods Database Tables**



1. The manager of Global Fast Foods would like to send out coupons for the upcoming sale. He wants to send one coupon to each household. Create the SELECT statement that returns the customer last name and a mailing address.

select l- nome, mailing address.

2. Each statement below has errors. Correct the errors and execute the query in Oracle Application

Express.

a. SELECT first name FROM

f staffs;

Select first\_name |" " | last\_name AS "DJs on Demand Clients" FROM

d\_clients;

Select first\_name | " " | last\_name AS "DJs on Demand Clients" FROM

d\_clients;

Select first\_name | FROM d\_clients;

SELECT DISCTINCT f order\_lines

C. SELECT DISCTINCT f order\_lines

SELECT DISCTINCT f order\_lines

DISTINCT f order\_hines FROM quantity;

d.

SELECT order number FROM f\_orders;

select order-number FROM & - orders;

 Sue, Bob, and Monique were the employees of the month. Using the f\_staffs table, create a SELECT statement to display the results as shown in the Super Star chart.

Super Star
\*\*\* Sue \*\*\* Sue \*\*\*
\*\*\* Bob \*\*\* Bob \*\*\*
\*\*\* Monique \*\*\* Monique \*\*\*

select '\*\*\* "Il first-name 11 '\* \*\* As "seper star" FROM f-staffs where first-name IN ('Sue', 'Bob', 'Morique');

4. Which of the following is TRUE about the following query?

SELECT first\_name, DISTINCT birthdate FROM f\_staffs;

- a. Only two rows will be returned.
- b. Four rows will be returned.
- c. Only Fred 05-Jan-1988 and Lizzie 10-Nov-1987 will be returned.
- d. No rows will be returned.

5. Global Fast Foods has decided to give all staff members a 5% raise. Prepare a report that presents the output as shown in the chart.

EMPLOYEE LAST NAME	CURRENT SALARY	SALARY WITH 5% RAISE	
Select 1- name "CURRENT SALI RATSE" DROM f	ARYO ralary * 1.1	LAST NAME; balany 05 AS "SALARY WI	AS TH SY

6. Create a query that will return the structure of the Oracle database EMPLOYEES table. Which columns are marked "hullable"? What does this mean?

Describe EMPLOYEES;

N'ullable means that the column can contain a NULL when which represents a mining or unknown data foint

7. The owners of DJs on Demand would like a report of all items in their D\_CDs table with the following

column headings: Inventory Item, CD Title, Music Producer, and Year Purchased. Prepare this report Select investory - item As "inventory Item", ed-atle As "Cotitle", music producer As "Music producer", year - Levelaced

As" Year Junchand " FROM D-CD1,

8.True/False - The following SELECT statement executes successfully: SELECT last\_name, job\_id, salary AS Sal FROM employees.

True

9. True/False - The following SELECT statement executes successfully: SELECT \* FROM Job\_grades;

True

10. There are four coding errors in this statement. Can you identify them?

SELECT employee\_id, last\_name sal x 12 ANNUAL SALARY FROM employees:

select employee -id / last - name, sal # 12 AS "ANNUAL SALARX FROM employed:

 $11. ln \ the \ arithmetic \ expression \ salary *12 \cdot 400$ , which operation will be evaluated first?

\* will be evaluated first.

- 12. Which of the following can be used in the SELECT statement to return all columns of data in the
- c. DISTINCT Id
- d. both a and b
- 13. Using SQL to choose the columns in a table uses which capability?
- projection
- partitioning
- join
- 14. SELECT last\_name AS "Employee". The column heading in the query result will appear as:

- a. EMPLOYEE
- b. employee
- Employee
- d. "Employee:
- 15. Which expression below will produce the largest value?
- SELECT salary\*6 + 100
- BY SELECT salary\* (6 + 100)
- c. SELECT 6(salary+ 100)
- d. SELECT salary+6\*100
- 16. Which statement below will return a list of employees in the following format? Mr./Ms. Steven King is an employee of our company.
- SELECT "Mr./Ms."||first\_name||' '||last\_name 'is an employee of our company.' AS "Employees" FROM employees;
- SELECT 'Mr./Ms. 'first\_name,last\_name | | ' ' | | 'is an employee of our company.' FROM b. employees;
- SELECT 'Mr./Ms. '||first\_name||' '||last\_name||' '||'is an employee of our company.' AS "Employees" FROM employees;
- vt. SELECT Mr./Ms. ||first\_name||''||last\_name||''||"is an employee of our company." AS "Employees" FROM employees
- 17. Which is true about SQL statements?
- SQL statements are case-sensitive
- SQL clauses should not be written on separate lines.
- c. Keywords cannot be abbreviated or split across lines.
- d. SQL keywords are typically entered in lowercase; all other words in uppercase.
- 18. Which queries will return three columns each with UPPERCASE column headings?
- SELECT "Department\_id", "Last\_name", "First\_name"

FROM employees;

SELECT DEPARTMENT\_ID, LAST\_NAME, FIRST\_NAME

FROM employees;

e. SELECT department\_id, last\_name, first\_name AS UPPER CASE

FROM employees

d. SELECT department\_id, last\_name, first\_name

FROM employees;

- 19. Which statement below will likely fail?
- a. SELCT \* FROM employees;
- b. Select FROM employees;
- SELECT \* FROM EMPLOYEES;
- d. SelecT\* FROM employees;

20. Click on the History link at the bottom of the SQL Commands window. Scroll or use the arrows at the bottom of the page to find the statement you wrote to solve problem 3 above. (The one with the column heading SuperStar). Click on the statement to load it back into the command window. Execute the command again, just to make sure it is the correct one that works. Once you know it works, click on the SAVE button in the top right corner of the SQL Commands window, and enter a name for your saved statement. Use your own initials and "\_superstar.sql", so if your initials are CT then the filename will be CT\_superstar.sql.

Log out of OAE, and log in again immediately. Navigate back to the SQL Commands window, click the Saved SQL link at the bottom of the page and load your saved SQL statement into the Edit window. This is done by clicking on the script name. Edit the statement, to make it display + instead of \*. Run your amended statement and save it as initials\_superplus.sql.

Evaluation Procedure	Marks awarded	
Practice Evaluation (5)	5	
Viva(5)	4	
Total (10)	9	
Faculty Signature	Apo .	