

Working With DML

Workbook

Answer the following

1. What does DDL stands for_____.
2. _____ are DML statements.
3. Emp table is having three column Ename, Eno and Age. Write the correct insert statements to insert a row? _____
4. Can we insert multiple values to a table at a time? (Yes / No)
5. We can update more than one value using update statement.(True / False)
6. _____ is a query to delete whole records from table Dept?
7. _____ command is used to change the existing data in a table.
8. _____ keyword is used to specify conditional search.
9. The FROM keyword is used to_____.
10. _____command is used to add records to a table.
11. _____command is used to remove rows from a table.
12. _____clause is used to restrict the rows returned by a query

Exercises

- Write the expected output, or compiler errors if any, for each of the following programs.

program 1

```
SQL> DESC employees;
```

Name	Null?	Type
-----	-----	-----
EMPLOYEE_ID	NOT NULL	INT(6)

FIRST_NAME		VARCHAR(20)
LAST_NAME	NOT NULL	VARCHAR(25)
EMAIL	NOT NULL	VARCHAR(25)
PHONE_NUMBER		VARCHAR(20)
HIRE_DATE	NOT NULL	DATE
JOB_ID	NOT NULL	VARCHAR(10)
SALARY		FLOAT(11)
COMMISSION_PCT		FLOAT(12)
MANAGER_ID		INT(6)
DEPARTMENT_ID		INT(4)

EMPLOYEE_ID	FIRST_NAME	JOB_ID
5100	BRUCE	CLERK
5101	JESSICA	SALESMAN
5102	DEBBY	SALESMAN

Q1: INSERT INTO EMPLOYEES (employee_id, first_name, job_id)
VALUES (5100, 'BRUCE', 'CLERK');

Assuming that there is a duplicate value check constraint on the
EMPLOYEE_ID column, what will be the outcome of the above
statement?

Q2: INSERT INTO EMPLOYEES (employee_id, first_name, job_id)
VALUES (51003, 'BRUCE', 'CLERK');

What will be the output of above statement?

Q3: INSERT INTO EMPLOYEES (employee_id, first_name, job_id)
VALUES (51003, 'BRUCE', NULL);

What will be the output of this statement?

Program 2

SQL> DESC departments;

Name	Null?	Type
DEPARTMENT_ID	NOT NULL	INT(6)
DEPARTMENT_NAME	NOT NULL	VARCHAR(30)
MANAGER_ID		INT(11)
LOCATION_ID		INT(11)

Q1: INSERT INTO departments (department_id, department_name, manager_id, location_id) VALUES (100, 'Human Resources', 121, 1000);

How many rows will be inserted by the above statement?

Q2: In which order the values will get inserted with respect to the above INSERT statement?

Q3: INSERT INTO departments VALUES (100, 'Human Resources', 121, 1000);

What will be the outcome of this modification?

Program 3

SQL> DESC employees;

Name	Null?	Type
-----	-----	-----
EMPLOYEE_ID	NOT NULL	INT(6)
FIRST_NAME		VARCHAR(20)
LAST_NAME	NOT NULL	VARCHAR(25)
EMAIL	NOT NULL	VARCHAR(25)
PHONE_NUMBER		VARCHAR(20)
HIRE_DATE	NOT NULL	DATE
JOB_ID	NOT NULL	VARCHAR(10)
SALARY		FLOAT(11)
COMMISSION_PCT		FLOAT(12)
MANAGER_ID		INT(6)
DEPARTMENT_ID		INT(4)

Q1: INSERT INTO EMPLOYEES (employee_id, hire_date) VALUES (210, '21-JUN-2013');

What will be the outcome of the above INSERT statement?

Q2: INSERT INTO EMPLOYEES (employee_id, first_name) VALUES (210, 'Bryan');

What will be the outcome of the above INSERT statement?

Q3: Suppose we need to insert the name O'Callaghan as the last name of the employees table. Which query will give you the required results?

Q4: INSERT INTO EMPLOYEES (employee_id, first_name) VALUES ('210', 'Bryan');

What will be the outcome of the above INSERT statement?

Program 4

```
SQL> DESC departments;
```

Name	Null?	Type
DEPARTMENT_ID	NOT NULL	INT(6)
DEPARTMENT_NAME	NOT NULL	VARCHAR(30)
MANAGER_ID		INT(11)
LOCATION_ID		INT(11)

Q1: INSERT INTO departments VALUES (200, 'Accounts', NULL, NULL);

What will be the outcome of the above INSERT statement?

Q2: INSERT INTO departments VALUES (NULL, 'Accounts', NULL);

What will be the outcome of the above INSERT statement?

Q3: INSERT INTO departments VALUES (100, 'Human Resources', 121, 1000);

What will be the outcome of this modification?

Program 5

```
SQL> desc countries;
```

Name	Null?	Type
COUNTRY_ID	NOT NULL	INT
COUNTRY_NAME		VARCHAR(40)
REGION_ID		INT



- Q1:** `INSERT INTO COUNTRIES (1, 'INDIA', 99);`
How many rows will be inserted by the above statement?
- Q2:** Which sql query update the column `region_id` to 101 where `country_id = 1`?
- Q3:** Which query deletes a record from the table "COUNTRIES" where `country_id = 1`?