Description:

In this assignment, you will be working with a fictional database of a company named "XYZ Corp." The database contains two tables, employees and departments. Your task is to write SQL commands to retrieve and manipulate data from these tables.

Use the employees table to answer the following questions:

a. Write a query to select all columns and rows from the employees table.

Answer:

SELECT \*

FROM employees;

b. Write a query to select only the name and salary columns of all employees with a salary greater than 50000.

Answer:

SELECT name, salary

FROM employees

WHERE salary > 50000;

c. Write a query to calculate the average salary of all employees.

Answer:

SELECT AVG(salary) AS avg\_salary

FROM employees;

d. Write a query to count the number of employees who work in the "Marketing" department.

Answer:

SELECT COUNT(\*) FROM employees

WHERE department = “Marketing”;

e. Write a query to update the salary column of the employee with an id of 1001 to 60000.

Answer:

UPDATE employee

SET salary = 60000

WHERE id = 1001;

f. Write a query to delete all employees whose salary is less than 30000.

Answer:

DELETE FROM employees

WHERE salary < 30000;

Use the departments table to answer the following questions:

a. Write a query to select all columns and rows from the departments table.

Answer:

SELECT \*

FROM departments;

b. Write a query to select only the name and manager columns of the "Finance" department.

Answer:

SELECT name, manager

FROM department

WHERE name = “Finance”;

c. Write a query to calculate the total number of employees in each department.

Answer:

SELECT departments.name, COUNT(\*) as total\_employees

FROM departments

GROUP BY departments.name;

d. Write a query to insert a new department called "Research" with a manager named "John Doe".

Answer:

INSERT INTO departments (name,manager)

VALUES (“Research”,”John Doe”);