1. Write a SQL query to create Employee & Department table with specific columns and constraints.(Note- Create Table, insert data as per your Choice) >>show databases; use employeemanagementsystem; show tables: desc dept; desc employee; select * from dept; select * from employee; 1 Alice HR 30000 2 Bob ΤT 45000 3 Charlie HR 40000 4 David Finance 55000 5 Eva ΤT 60000 6 Frank Finance 50000 7 Grace HR 35000 8 Hank ΙT 70000 9 Ivy Finance 45000 10 Jack ΙT 40000 1 HR 2 IT 3 Finance 2. Write a SQL query to add any new column to an existing table. >>ALTER TABLE dept ADD COLUMN EmpID int; Edit: 🕍 📆 Export/Import: 📳 📸 | Wrap Cell Content: 🔣 DeptName EmpID DeptID NULL NULL NULL 3. Write a SQL query to insert multiple records (At least 5) into a table in a single operation. >>INSERT INTO employee (EmpID, name, Dept, salary) **VALUES** (11, 'Alice', 'IT', 50000), (12, 'Bob', 'HR', 60000), (13, 'Charlie', 'Finance', 30000), (14, 'Diana', 'IT', 100000), (15, 'Ethan', 'HR', 20000); 4. Write a SQL query to delete all records from a table. 1

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>> delete from employee where Name='frank';
5. Write a SQL query to update salary records from a table where id = 5
>>UPDATE employee
SET salary = 30000
WHERE EmpID = 5;
6. Write a query to grant SELECT privilege on the Emp table to user readonly_user
>>GRANT SELECT ON employeemanagementsystem.employeeTO 'readonly user'@'localhost';
7. Write a query to revoke INSERT privilege on the Emp table from user temp user.
>>REVOKE INSERT ON employeemanagementsystem.employeeFROM 'temp user'@'localhost';
8. Write a guery to insert a new employee into the Emp table and commit the
transaction
>>INSERT INTO Employee (EmplD, Name, dept, Salary)
VALUES (16, 'Rahul Sharma', 2, 50000);
-- Commit the transaction to make the insertion permanent
COMMIT;
9. Write a query to update the Salary of an employee with EmpID = 101 and commit the
transaction.
>>UPDATE Employee
SET Salary = 60000
WHERE EmpID = 10;
-- Commit the transaction
COMMIT;
10. Write a query to set a SAVEPOINT before updating the DeptID of an employee.
>>START TRANSACTION;
-- Set a savepoint before updating
SAVEPOINT before dept update;
-- Update the DeptID of the employee
UPDATE Employee
SET dept = 3
WHERE EmpID = 7;
-- Commit the transaction to make changes permanent
COMMIT;
11. Write a guery to rollback to the previously created SAVEPOINT.
START TRANSACTION;
-- Set a savepoint
SAVEPOINT before dept update;
-- Make an update
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UPDATE Employee
SET dept = 2
WHERE EmpID = 9;
-- Rollback to the savepoint if needed
ROLLBACK TO SAVEPOINT before_dept_update;
-- Commit the transaction to save changes permanently
COMMIT;
12. Write a query to truncate all data from the Emp table.
TRUNCATE TABLE Employee;
13. Write a query to list all employees whose salary is greater than 50,000
      SELECT EmpID, Name, Salary
 93
      FROM Employee
      WHERE Salary > 50000;
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EmpID Name Salary
12 Bob 60000
14 Diana 100000
14. Write a query to increase the salary of all employees in Dept = 'IT' by 10%.
>>UPDATE Employee
SET Salary = Salary * 1.10
WHERE dept = 'IT';
15. Write a query to count the total number of employees in each department.
>>SELECT dept, COUNT(*) AS Total_Employees
FROM Employee
GROUP BY dept;
16. Write a query to list departments that have no employees. & create a view for
those
salespeople who belong to the city of Mumbai.
>>drop table employee;
drop table dept;
-- Create the new table for following operation.
CREATE TABLE Emp (
  EmpID INT PRIMARY KEY,
  EmpName VARCHAR(50),
  DeptID INT,
  Salary DECIMAL(10,2),
  Job VARCHAR(50),
  City VARCHAR(50),
  FOREIGN KEY (DeptID) REFERENCES Department(DeptID)
CREATE TABLE Department (
  DeptID INT PRIMARY KEY,
  DeptName VARCHAR(50)
);
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INSERT INTO Department (DeptID, DeptName)
VALUES
(10, 'Sales'),
(20, 'HR'),
(30, 'IT'),
(40, 'Finance');
INSERT INTO Department (DeptID, DeptName)
VALUES
(10, 'Sales'),
(20, 'HR'),
(30, 'IT'),
(40, 'Finance');
INSERT INTO Emp (EmpID, EmpName, DeptID, Salary, Job, City)
VALUES
(101, 'Rahul', 10, 55000, 'Salesperson', 'Mumbai'),
(102, 'Priya', 10, 60000, 'Salesperson', 'Pune'),
(103, 'Amit', 20, 48000, 'HR Executive', 'Delhi'),
(104, 'Neha', 30, 75000, 'Developer', 'Mumbai');
SELECT D.DeptID, D.DeptName
FROM Department D
LEFT JOIN Emp E ON D.DeptID = E.DeptID
WHERE E.EmpID IS NULL;
CREATE VIEW Mumbai Salespeople AS
SELECT EmpID, EmpName, DeptID, Salary, City
FROM Emp
WHERE City = 'Mumbai' AND Job = 'Salesperson';
SELECT * FROM Mumbai Salespeople;
17. Write a query to display the highest salary among all employees.
>>SELECT EmpID, EmpName, Salary
FROM Emp
WHERE Salary = (SELECT MAX(Salary) FROM Emp);
18. Write a query to display the 2nd highest salary among all employees.
>>SELECT MAX(Salary) AS Second_Highest_Salary
FROM Emp
WHERE Salary < (SELECT MAX(Salary) FROM Emp);
19. Write a query to show all employees ordered by JoiningDate in descending order
>>ALTER TABLE Department
RENAME COLUMN DeptName TO DepartmentName;
ALTER TABLE Emp
ADD JoiningDate DATE;
desc Emp;
select * from Emp;
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