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Class: FYMCA

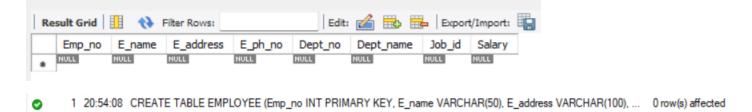
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ADBMS Practical Assignment 2

Practical 2: Implementation of DML commands of SQL with suitable examples

- Insert table
- Update table
- Delete Table
- 1. Create a table EMPLOYEE with following schema: (Emp_no, E_name, E_address, E_ph_no, Dept_no, Dept_name, Job_id , Salary)

Ans: CREATE TABLE EMPLOYEE (Emp_no INT PRIMARY KEY, E_name VARCHAR(50), E_address VARCHAR(100), E_ph_no VARCHAR(15), Dept_no VARCHAR(10), Dept_name VARCHAR(50), Job_id VARCHAR(10), Salary DECIMAL(10, 2));

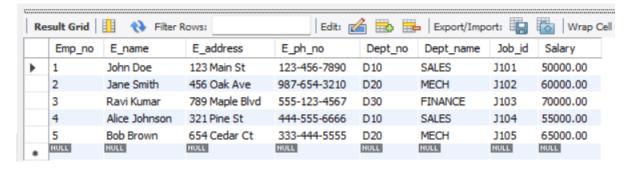


1. Insert at least 5 rows in the table.

Ans: INSERT INTO EMPLOYEE (Emp_no, E_name, E_address, E_ph_no, Dept_no, Dept_name, Job_id, Salary)

VALUES

- (1, 'John Doe', '123 Main St', '123-456-7890', 'D10', 'SALES', 'J101', 50000),
- (2, 'Jane Smith', '456 Oak Ave', '987-654-3210', 'D20', 'MECH', 'J102', 60000),
- (3, 'Ravi Kumar', '789 Maple Blvd', '555-123-4567', 'D30', 'FINANCE', 'J103', 70000),
- (4, 'Alice Johnson', '321 Pine St', '444-555-6666', 'D10', 'SALES', 'J104', 55000),
- (5, 'Bob Brown', '654 Cedar Ct', '333-444-5555', 'D20', 'MECH', 'J105', 65000);



2. Display all the information of EMP table.

Ans: SELECT * FROM EMPLOYEE;

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	Emp_no	E_name	E_address	E_ph_no	Dept_no	Dept_name	Job_id	Salary	
•	1	John Doe	123 Main St	123-456-7890	D10	SALES	J101	50000.00	
	2	Jane Smith	456 Oak Ave	987-654-3210	D20	MECH	J102	60000.00	
	3	Ravi Kumar	789 Maple Blvd	555-123-4567	D30	FINANCE	J103	70000.00	
	4	Alice Johnson	321 Pine St	444-555-6666	D10	SALES	J104	55000.00	
	5	Bob Brown	654 Cedar Ct	333-444-5555	D20	MECH	J105	65000.00	
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

3. Display the record of each employee who works in department D10.

Ans: SELECT * FROM EMPLOYEE WHERE Dept no = 'D10';

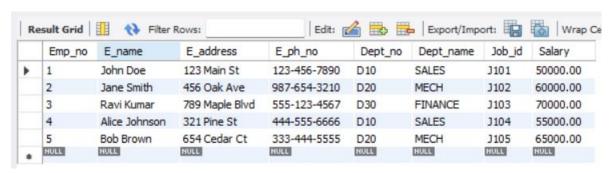
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	Emp_no	E_name	E_address	E_ph_no	Dept_no	Dept_name	Job_id	Salary
١	1	John Doe	123 Main St	123-456-7890	D10	SALES	J101	50000.00
	4	Alice Johnson	321 Pine St	444-555-6666	D10	SALES	3104	55000.00
	NULL	NULL	NULL	NULL	NULL	HULL	NULL	NULL

4. Update the city of Emp no-10 with current city as Nagpur.

Ans: UPDATE EMPLOYEE

SET E_address = 'Nagpur'

WHERE Emp no = 10;



5. Display the details of Employees who works in department MECH.

Ans: SELECT * FROM EMPLOYEE

WHERE Dept_name = 'MECH';

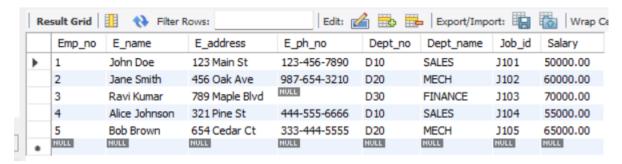


6. Delete the email_id of employee Ravi .

Ans: UPDATE EMPLOYEE

SET E_ph_no = NULL

WHERE E_name = 'Ravi Kumar';



7. Display the complete record of employees working in SALES Department.

Ans: SELECT * FROM EMPLOYEE

WHERE Dept_name = 'SALES';

Result Grid 🔢 🛟 Filter Rows: Edit: 🚄 📆 🖶 Export/Import: 📳 👸 Wrap									
	Emp_no	E_name	E_address	E_ph_no	Dept_no	Dept_name	Job_id	Salary	
•	1	John Doe	123 Main St	123-456-7890	D10	SALES	J101	50000.00	
	4	Alice Johnson	321 Pine St	444-555-6666	D10	SALES	J104	55000.00	
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

8. Delete one record from the table

Ans: **DELETE FROM EMPLOYEE**

WHERE Emp_no = 1;

					_			
	Emp_no	E_name	E_address	E_ph_no	Dept_no	Dept_name	Job_id	Salary
•	2	Jane Smith	456 Oak Ave	987-654-3210	D20	MECH	J102	60000.00
	3	Ravi Kumar	789 Maple Blvd	NULL	D30	FINANCE	J103	70000.00
	4	Alice Johnson	321 Pine St	444-555-6666	D10	SALES	J104	55000.00
	5	Bob Brown	654 Cedar Ct	333-444-5555	D20	MECH	J105	65000.00
	NULL	NULL	HULL	HULL	NULL	NULL	NULL	NULL

9. Create Index on E_name table

Ans: CREATE INDEX idx_E_name ON EMPLOYEE(E_name);

10. Apply transaction control statement using Commit, Rollback & Savepoint on table.

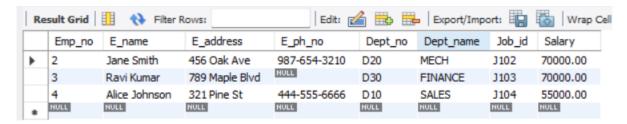
Ans: START TRANSACTION;

SAVEPOINT savepoint1;

UPDATE EMPLOYEE

SET Salary = Salary + 5000

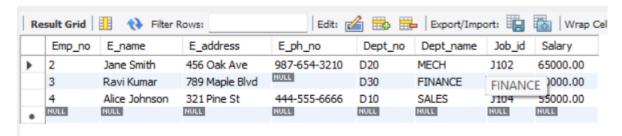
WHERE Emp no = 2;



SAVEPOINT savepoint2;

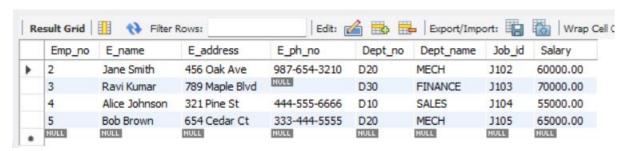
DELETE FROM EMPLOYEE

WHERE Emp no = 5;



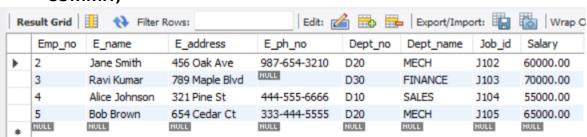
-- Rollback to savepoint1

ROLLBACK TO savepoint1;



-- Commit the transaction

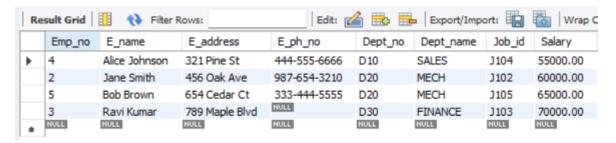
COMMIT;



11. Sort the employee by Salary.

Ans: SELECT * FROM EMPLOYEE

ORDER BY Salary;



12. Sort the employee from highest to lowest Salary.

Ans: SELECT * FROM EMPLOYEE

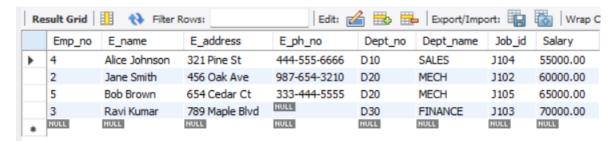
ORDER BY Salary DESC;

Re	Result Grid 1			Edit:	Wrap Ce			
	Emp_no	E_name	E_address	E_ph_no	Dept_no	Dept_name	Job_id	Salary
•	3	Ravi Kumar	789 Maple Blvd	NULL	D30	FINANCE	J103	70000.00
	5	Bob Brown	654 Cedar Ct	333-444-5555	D20	MECH	J105	65000.00
	2	Jane Smith	456 Oak Ave	987-654-3210	D20	MECH	J102	60000.00
	4	Alice Johnson	321 Pine St	444-555-6666	D10	SALES	J104	55000.00
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

13. Sort the employee from lowest to highest Salary.

Ans: **SELECT * FROM EMPLOYEE**

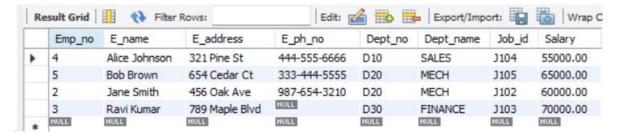
ORDER BY Salary ASC;



14. Sort the employee name in Ascending and Salary in Descending order.

Ans: SELECT * FROM EMPLOYEE

ORDER BY E_name ASC, Salary DESC;



15. Delete all the records using the Truncate command.

Ans: TRUNCATE TABLE EMPLOYEE;

