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--WELCOME TO SQL CASE STUDY--
/* D.D.L. QUERIES */
-- CREATE TABLE : CASE_STUDY--
CREATE TABLE CASE STUDY
 EID INT PRIMARY KEY NOT NULL,
 DEPARTMENT TEXT ,
 FIRST_NAME VARCHAR(15) ,
 LAST_NAME VARCHAR(15) ,
 SALARY NUMERIC
 JOINING_DATE DATE
);
-- CLEAR TABLE CONTENTS QUICKLY---
TRUNCATE CASE_STUDY;
--ALTER TABLE(FIELDS/COLUMNS) --
ALTER TABLE CASE_STUDY
ADD FOREIGN KEY (EID) REFERENCES Employee(EID);
ALTER TABLE CASE_STUDY
ADD EMAIL VARCHAR(255);
ALTER TABLE CASE_STUDY
DROP COLUMN EMAIL ;
ALTER TABLE CASE_STUDY
ALTER COLUMN JOINING_DATE TYPE VARCHAR(255)
USING JOINING_DATE::VARCHAR(255);
ALTER TABLE CASE_STUDY
ALTER COLUMN JOINING_DATE TYPE DATE
USING JOINING_DATE::DATE;
ALTER TABLE CASE_STUDY
RENAME COLUMN JOINING_DATE TO DATE_OF_JOINING;
---CREATE VIEW "VIEW_NAME" AS---
CREATE VIEW CASE_RECORD AS
SELECT * FROM CASE_STUDY
ORDER BY EID ASC;
--DROP TABLE--
DROP TABLE CASE_STUDY;
/* D.M.L. QUERIES */
---INSERT VALUES INTO A TABLE : CASE_STUDY---
INSERT INTO
CASE_STUDY(EID, DEPARTMENT, FIRST_NAME, LAST_NAME, SALARY, JOINING_DATE)
(1, 'HR', 'Sankalp', 'Waghe', 10000000, '1999-07-18'), (2, 'ADMIN', 'Vivek', 'Khandekar', 10600000, '1989-3-4'),
(3, 'CTO', 'Swapnil', 'Pradeep', 10800000, '1995-10-17'),
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(4, 'ACCOUNT', 'Mohan', 'Parmagullu', 10000000, '1996-01-10'),
(5, 'CEO', 'Ritesh', 'Parulekar', 10800000, '1994-11-23')
---UPDATE QUERY---
UPDATE CASE STUDY
SET FIRST_NAME = 'Prathamesh', LAST_NAME = 'Patkar'
WHERE EID = 1;
UPDATE CASE_STUDY
SET FIRST_NAME = 'Prathamesh', LAST_NAME = 'Patkar'
WHERE EID = 1 AND DEPARTMENT = 'HR';
--- DELETE FROM QUERY---
DELETE FROM CASE_STUDY
WHERE FIRST_NAME = 'Prathamesh'
/* D.Q.L. QUERIES */
---ORDER BY QUERY---
SELECT * FROM CASE_STUDY
ORDER BY EID;
SELECT * FROM CASE_STUDY
ORDER BY EID DESC;
---LIMIT QUERY---
---Select LIMITED RECORDS---
SELECT * FROM CASE_STUDY
ORDER BY EID
LIMIT 3;
SELECT * FROM CASE_STUDY
ORDER BY EID DESC
LIMIT 3;
---FETCH FIRST 3 RECORDS---
SELECT *
FROM CASE_STUDY
ORDER BY EID
FETCH FIRST 3 ROWS ONLY;
---OFFSET QUERY: SKIPS FIRST "Nth" RECORDS---
SELECT *
FROM CASE_STUDY
ORDER BY EID
OFFSET 2; ---SKIP FIRST 2 RECORDS---
---FIND IN FIELDS THAT END WITH---
SELECT *
FROM CASE_STUDY
WHERE (LAST_NAME LIKE '%r' OR FIRST_NAME LIKE '%R');
---FIND IN FIELDS THAT CONTAIN---
SELECT *
FROM CASE_STUDY
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WHERE FIRST_NAME
LIKE '%i%e%';
---FIND IN FIELDS THAT STARTS WITH---
SELECT *
FROM CASE STUDY
WHERE FIRST_NAME
LIKE 'R%'
--- GROUP BY CLAUSE---
SELECT COUNT(CASE_STUDY.FIRST_NAME) AS Count_Salaries, CASE_STUDY.SALARY AS C_S
FROM CASE STUDY
GROUP BY CASE_STUDY.SALARY
ORDER BY Count_Salaries DESC
---HAVING CLAUSE---
SELECT COUNT(CASE_STUDY.FIRST_NAME) AS Count_Salaries, CASE_STUDY.SALARY AS C_S
FROM CASE STUDY
GROUP BY CASE_STUDY.SALARY
HAVING CASE_STUDY.SALARY >= 10800000
ORDER BY Count_Salaries DESC
---SUBQUERY QUANTITY/RANGE---
SELECT CASE_STUDY.FIRST_NAME, CASE_STUDY.DEPARTMENT FROM CASE_STUDY WHERE EID
IN (SELECT Employee.EID FROM Employee WHERE EID <= 9);</pre>
---BETWEEN KEYWORD FOR RANGE---
SELECT FIRST_NAME, LAST_NAME FROM CASE_STUDY WHERE EID BETWEEN 3 AND 9;
--AGGREGATE FUNCTIONS---
---SELECT MINIMUM FROM UNIT---
SELECT MIN(DATE_OF_JOINING) AS Datewise_senior
FROM CASE_STUDY;
---SELECT MAXIMUM FROM UNIT---
SELECT MAX(DATE_OF_JOINING) AS Datewise_junior
FROM CASE_STUDY;
---SELECT COUNT OF UNITS---
SELECT COUNT(EID) AS Count_Of_Employees
FROM CASE_STUDY;
---SELECT AVERAGE OF UNITS---
SELECT AVG(SALARY) AS AVERAGE_C2C
FROM CASE_STUDY;
---SELECT SUM OF UNITS---
SELECT SUM(SALARY) AS SUM C2C
FROM CASE_STUDY;
```

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--LEFT JOIN--
SELECT
CASE_STUDY.EID, CASE_STUDY.FIRST_NAME, CASE_STUDY.DEPARTMENT, Employee.DEPT, Employee.P
ROJECT
FROM CASE_STUDY LEFT JOIN Employee
ON CASE_STUDY.DEPARTMENT = Employee.DEPT
--RIGHT JOIN--
SELECT
CASE_STUDY.EID, CASE_STUDY.FIRST_NAME, CASE_STUDY.DEPARTMENT, Employee.DEPT, Employee.P
ROJECT
FROM CASE_STUDY RIGHT JOIN Employee
ON CASE_STUDY.DEPARTMENT = Employee.DEPT
--INNER JOIN--
SELECT
CASE_STUDY.EID, CASE_STUDY.FIRST_NAME, CASE_STUDY.DEPARTMENT, Employee.DEPT, Employee.P
ROJECT
FROM CASE_STUDY INNER JOIN Employee
ON CASE_STUDY.DEPARTMENT = Employee.DEPT
--FULL OUTER JOIN--
CASE_STUDY.EID, CASE_STUDY.FIRST_NAME, CASE_STUDY.DEPARTMENT, Employee.DEPT, Employee.P
ROJECT
FROM CASE_STUDY FULL OUTER JOIN Employee
ON CASE_STUDY.DEPARTMENT = Employee.DEPT
;
--- SELECT THE CREATED TABLE ---
SELECT * FROM CASE_STUDY;
--- SELECT THE CREATED VIEW ---
SELECT * FROM CASE_RECORD;
```