CREATE DATABASE StarlinersFc

USE StarlinersFc

CREATE TABLE PlayerInfo

(

PlayerId INTEGER, -- THIS COLUMN STORES DIGITS: 0, -10, 99 ...

PlayerName CHARACTER(50),

PlayerNumber INT, -- THIS COLUMN STORES DIGITS: 0, -10, 99 ...

Size VARCHAR(10),

Age INT, -- THIS COLUMN STORES DIGITS: 0, -10, 99 ...

Height CHAR, -- THIS COLUMN STORES DIGITS: 0, -10, 99 ...

)

SELECT \* FROM PlayerInfo

-- CHAR : TO STORE STATIC, FIXED VALUES. EX: USERNAME

-- VARCHAR : TO STORE DYNAMIC, CHNAGING (VARYING) VALUES. EX: PASSWORD

UPDATE TABLE PlayerInfo

INSERT INTO PlayerInfo VALUES (1, 'MICHAEL', 10, 'S', 23, '1.75')

INSERT PlayerInfo VALUES (2, 'YOHANNES', 15 , 'M', 23, '1.82')

INSERT PlayerInfo VALUES (3, 'SIMON', 23, 'S', 20, '1.70')

INSERT INTO PlayerInfo VALUES (4, 'ABDUL', 2, 'M', 25, '1.80')

INSERT INTO PlayerInfo VALUES (5, 'FREDO', 11, 'M', 23, '1.80'), (6, 'FLAV', 6, 'L', 25, '1.85')

-- QUERY 5: HOW TO REPORT ABOVE INSERTED DATA IN THE TABLE ?

SELECT \* FROM PlayerInfo -- \* MEANS TO REPORT TALL COLUMNS IN A TABLE

-- QUERY 6: HOW TO REPORT ALL EMPLOYEES FROM CANADA ?

SELECT \* FROM PlayerInfo WHERE Size = 'S'

-- QUERY 7: HOW TO REPORT ALL EMPLOYEES FROM USA OR CANADA ?

SELECT \* FROM PlayerInfo WHERE Age = '23' OR PlayerName = 'MICHAEL'

-- QUERY 8: HOW TO REPORT ALL EMPLOYEES FROM USA OR CANADA ?

SELECT \* FROM PlayerInfo WHERE Height IN ( '1','2')

-- QUERY 9: HOW TO REPORT ALL EMPLOYEES EXCEPT FROM USA OR CANADA ?

SELECT \* FROM PlayerInfo WHERE PlayerId NOT IN ( '1','2')

-- QUERY 12: HOW TO REPORT ALL EMPLOYEES WHOSE FIRST NAME STARTS WITH LETTER 'J'?

SELECT \* FROM EMPLOYEE\_INFO WHERE EmployeeName LIKE 'J%'

-- QUERY 13: HOW TO REPORT ALL EMPLOYEES WHOSE FIRST NAME NOT START WITH LETTER 'J'?

SELECT \* FROM EMPLOYEE\_INFO WHERE EmployeeName NOT LIKE 'J%'

-- QUERY 14: HOW TO REPORT ALL EMPLOYEES WITH ASCENDING ORDER OF SALARIES?

SELECT \* FROM EMPLOYEE\_INFO ORDER BY EmployeeSalary ASC

-- QUERY 15: HOW TO REPORT ALL EMPLOYEES WITH DESCENDING ORDER OF SALARIES?

SELECT \* FROM EMPLOYEE\_INFO ORDER BY EmployeeSalary DESC

-- QUERY 16: HOW TO REPORT TOP 2 EMPLOYEES WITH HIGHEST SALARY ?

SELECT TOP 2 \* FROM EMPLOYEE\_INFO ORDER BY EmployeeSalary DESC

/\*

CREATE : TO CREATE OR DEFINE NEW DATABASE OR TABLE

USE : TO CONNECT TO A SPECIFIC DATABASE

INSERT : TO STORE DATA INTO TABLE

SELECT : TO REPORT DATA FROM TABLE

WHERE: TO SPECIFY CONDITIONS ON TABLE DATA

IN: TO CHECK FOR GIVEN VALUES AND REPORT MATCHING ITEMS

NOT IN: TO CHECK FOR GIVEN VALUES AND REPORT NON MATCH ITEMS

BETWEEN: TO CHECK FOR GIVEN RANGE OF VALUES

NOT BETWEEN: TO CHECK FOR DATA OUTSIDE THE GIVEN RANGE OF VALUES

LIKE: TO SEARCH FOR TEXT DATA BASED ON THAT MATCHES WITH THE GIVEN PATTERN.

EX: SEARCH FOR ALL EMPLOYEES WHOESE NAME STARTS WITH THE LETTER "J"

NOT LIKE: TO SEARCH FOR TEXT DATA BASED ON THAT DOESN'T MATCH WITH THE GIVEN PATTERN.

EX: SEARCH FOR ALL EMPLOYEES WHOSE NAME DOESN'T START WITH THE LETTER "J"

ORDER BY : USED TO SORT (ARRANGE) THE DATA

ASC : TO SORT THE DATA IN ASCENDING ORDER. LOW TO HIGH. DEFAULT.

DESC: TO SORT THE DATA IN DESCENDING ORDER. HIGH TO LOW

TOP

MAX(), MIN()

SUB QUERY

\*/

-- REQUIREMENT : HOW TO REPORT LIST OF ALL PLAYERS THAT HAVE HIGHEST AGE?

SELECT MAX(Age) FROM PlayerInfo

SELECT \* FROM PlayerInfo WHERE Age = 25

SELECT \* FROM PlayerInfo WHERE Age = (SELECT MAX(Age) FROM PlayerInfo)

SELECT \* FROM PlayerInfo WHERE Age = (SELECT MIN(Age) FROM PlayerInfo)

ALTER TABLE PlayerInfo ADD [PlayerCountry] VARCHAR(30)

SELECT \* FROM PlayerInfo

ALTER TABLE PlayerInfo ADD [PlayerSalary] VARCHAR(30)

SELECT \* FROM PlayerInfo

-- QUERY 19: HOW TO MODIFY THE EXISTING DATA IN A TABLE? EX: HOW TO MODIFY SALARIES?

UPDATE PlayerInfo SET PlayerSalary = 10000 WHERE PlayerCountry = 'CANADA'

SELECT \* FROM PlayerInfo

-- QUERY 20: HOW TO REMOVE THE LIST OF ALL EMPLOYEES FROM TABLE [Logged in ldf FILE]

DELETE FROM PlayerInfo WHERE PlayerCountry = 'CANADA'

SELECT \* FROM PlayerInfo

DELETE FROM PlayerInfo -- REMOVES ALL DATA FROM TABLE ROW BY ROW

SELECT \* FROM PlayerInfo

-- QUERY 21: HOW TO REMOVE THE LIST OF ALL EMPLOYEES FROM TABLE [Not Logged in ldf FILE]

TRUNCATE TABLE PlayerInfo -- REMOVES ALL ROWS FROM THE TABLE AT ONCE

-- QUERY 22: HOW TO ADD NEW COLUMN TO EXISTING TABLE?

ALTER TABLE PlayerInfo ADD [EMP LOCATION] VARCHAR(30)

SELECT \* FROM PlayerInfo

-- QUERY 23: HOW TO MODIFY STRUCTURE OF EXISING COLUMN IN EXISTING TABLE?

ALTER TABLE PlayerInfo ALTER COLUMN [EMP LOCATION] VARCHAR(3000)

-- QUERY 24: HOW TO REMOVE AN EXISING COLUMN FROM THE TABLE?

ALTER TABLE PlayerInfo DROP COLUMN [EMP LOCATION]

SELECT \* FROM PlayerInfo

-- QUERY 25: HOW TO REMOVE THE TABLE FROM DATABASE? -- OPPOSITE OF CREATE TABLE STATEMENT

DROP TABLE PlayerInfo

-- DIFFERENCE BETWEEN DROP AND DELETE?

-- DELETE : TO REMOVE THE CONTENT INSIDE THE TABLE

-- DROP : TO REMOVE THE TABLE ITSELF. DESTROY THE TABLE