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Date : 23-Dec-2020

**[CLASS EXERCISE - 7]**

**COURSE Name: Data Science**

**COURSE CODE: CSC 3305, SEC: 01**

**LECTURER: Dr. RAINI HASSAN**

**Name: Hasan Tanveer Mahmood**

**Matric No: 1725413**

**SQL Commands Demonstration**

**For Part C (1): The Relational Data Model and SQL Chapter**

**# Creating a Table CSC3305\_Students**

|  |
| --- |
| -- Hasan Tanveer Mahmood 1725413  Create TABLE csc3305\_students (  Matric\_no INT NOT NULL,  Frist\_name VARCHAR(15) NOT NULL,  Last\_name VARCHAR(15) NOT NULL,  Birthdate DATE,  Country VARCHAR(15) NOT NULL,  CONSTRAINT Matric\_no\_PK PRIMARY KEY(Matric\_no)); |

**# Insert value to Table**

|  |
| --- |
| insert into csc3305\_students values(1725413,'Tanveer','Mahmood','01/01/1999','Bangladesh');  insert into csc3305\_students values(1722012,'Abdullah','Mahammad','05/03/1996','Pakistan');  insert into csc3305\_students values(1720051,'Asif','Jamal','13/11/1998','India');  insert into csc3305\_students values(1725501,'Thiana','Lancine','08/09/1991','Africa');  insert into csc3305\_students values(1725823,'Abdul','Aziz','27/05/1998','Soudi Arabia');  insert into csc3305\_students values(1725837,'Din','Wanzi','18/9/1995','China');  insert into csc3305\_students values(1726541,'Wan','Mahmud','17/02/1993','Malaysia');  insert into csc3305\_students values(1732134,'Bilal','Haqim','01/08/1999','Indoneshia');  insert into csc3305\_students values(1710101,'Muaz','Hafiz','21/06/1997','Bangladesh');  insert into csc3305\_students values(1735461,'Shi','yeufe','09/07/1996','China'); |

**# SQL Command For Query**

|  |
| --- |
| SELECT \* FROM csc3305\_students; |

**# Query Result**

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**# Create three more attributes: a) Gender, b)Favorite Color and c) Hobby**

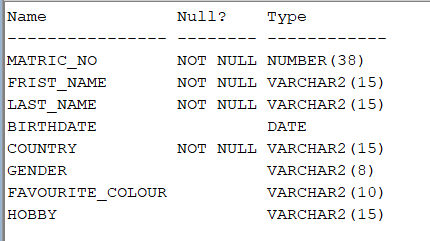
|  |
| --- |
| ALTER TABLE csc3305\_students  ADD (Gender Varchar(8),  Favourite\_Colour Varchar(10),  Hobby Varchar(15)); |

**# Table Altered**

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**# Describe Table Attribute**

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**# Update All Tuple to Include Data for Newly Created Attributes**

|  |
| --- |
| UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Black', Hobby = 'Programming'  WHERE Matric\_no = 1725413;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Red', Hobby = 'Reading'  WHERE Matric\_no = 1722012;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Purple', Hobby = 'Hacking'  WHERE Matric\_no = 1720051;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Blue', Hobby = 'Programming'  WHERE Matric\_no = 1725501;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Red', Hobby = 'Photography'  WHERE Matric\_no = 1725837;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Orange', Hobby = 'Reading'  WHERE Matric\_no = 1726541;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Purple', Hobby = 'Hacking'  WHERE Matric\_no = 1732134;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Blue', Hobby = 'Drawing'  WHERE Matric\_no = 1710101;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Red', Hobby = 'Drawing'  WHERE Matric\_no = 1735461;  UPDATE csc3305\_students  SET Gender = 'Male', Favourite\_colour = 'Orange', Hobby = 'Reading'  WHERE Matric\_no = 1725823; |

**# Updated All Tuples**

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**# Insert Five New Tuple**

|  |
| --- |
| insert into csc3305\_students values(1625837,'Rukaiyah','Jahan','18/9/1995','Bangladesh','Female','Black','Hacking');  insert into csc3305\_students values(1526542,'Wan','Adibah','17/02/1993','Malaysia','Female','Blue','Programming');  insert into csc3305\_students values(1332138,'Jamal','Haqim','01/08/1999','Indoneshia','Female','Black','Photography');  insert into csc3305\_students values(1510106,'Maisara','Rasid','21/06/1997','Malaysia','Female','Purple','Reading');  insert into csc3305\_students values(1735465,'Shi','Jing','09/07/1996','China','Male','Green','Drawing'); |

**# Display After Insertion**

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**# Delete Tuples no 3,7 and 9**

|  |
| --- |
| DELETE FROM csc3305\_students  WHERE Matric\_no = 1720051 or matric\_no = 1726541 or matric\_no = 1710101; |

**# Display After Deletion**

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**# Display all tuples where the gender is equal to Male only**

|  |
| --- |
| Select \* from csc3305\_students  Where Gender = 'Male'; |

**# Display Query Result**

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**# Display all tuples where the favorite color is Red only**

|  |
| --- |
| Select \* from csc3305\_students  Where Favourite\_colour = 'Red'; |

**# Display Query Result**

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**# Display all tuples where Hobby is Reading only**

|  |
| --- |
| Select \* from csc3305\_students  Where Hobby = 'Reading'; |

**# Display Query Result**

**Table

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