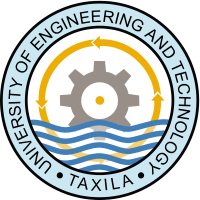
**University of Engineering & Technology, Taxila**

**B.Sc. Computer Engineering**



**Database Management Systems**

**Lab Manual: 2**

**Name: Nimra Nasir**

**Roll No: 19-CP-35**

**Semester: 5th**

**Section: Alpha**

**Submitted To: Sir Shahid**

## TASK 1:

**Create the following table using SQL and using the INSERT INTO command, insert the following values in the table created.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Reg No** | **Courses** | **Course Code** | **Offered By** |
| Ali | 01 | DIP | 1001 | Mr. A |
| Basit | 02 | DBMS | 1002 | Mr. X |
| Akram | 03 | OS | 1003 | Mr. Y |
| Asad | 04 | DBMS | 1002 | Mr. X |
| Zeeshan | 05 | DIP | 1001 | Mr. A |
| Muneer | 06 | OS | 1003 | Mr. Y |
| Shafqat | 07 | NM | 1004 | Mr. H |
| Ahsan | 08 | OS | 1003 | Mr. Y |
| Ikram | 09 | DIP |  |  |
| Hassan | 10 |  |  |  |

**Source Code:**

CREATE TABLE PersonsLab2 (

Name varchar(255),

Reg\_No int,

Courses varchar (255),

Courses\_Code int,

Offered\_By varchar(255)

);

Select \* from PersonsLab2;

insert into PersonsLab2 Values

('Ali',01,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Basit',02,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Akram',03,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Asad',04,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Zeeshan',05,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Muneer',06,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Shafqat',07,'NM',1004,'Mr.H');

insert into PersonsLab2 Values

('Ahsan',08,'OS',1003,'Mr.Y');

insert into PersonsLab2 (Name, Reg\_No, Courses)

values('Ikram',09,'DIP');

insert into PersonsLab2 (Name, Reg\_No)

values('Hassan',10);

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## TASK 2:

**Using the UPDATE statement, update the above table for the following values:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Reg\_No** | **Courses** | **Course\_Code** | **Offered\_By** |
| Ali | 01 | DIP | 1001 | Mr. A |
| Basit | 02 | DBMS | 1002 | Mr. X |
| Akram | 03 | OS | 1003 | Mr. Y |
| Asad | 04 | DBMS | 1002 | Mr. X |
| Zeeshan | 05 | DIP | 1001 | Mr. A |
| Muneer | 06 | OS | 1003 | Mr. Y |
| Shafqat | 07 | NM | 1004 | Mr. H |
| Ahsan | 08 | OS | 1003 | Mr. Y |
| Ikram | 09 | DIP | 1001 | Mr. A |
| Hassan | 10 | DSP | 1005 | Mr. Z |

**Source Code:**

CREATE TABLE PersonsLab2 (

Name varchar(255),

Reg\_No int,

Courses varchar (255),

Courses\_Code int,

Offered\_By varchar(255)

);

Select \* from PersonsLab2;

insert into PersonsLab2 Values

('Ali',01,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Basit',02,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Akram',03,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Asad',04,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Zeeshan',05,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Muneer',06,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Shafqat',07,'NM',1004,'Mr.H');

insert into PersonsLab2 Values

('Ahsan',08,'OS',1003,'Mr.Y');

insert into PersonsLab2 (Name, Reg\_No, Courses)

values('Ikram',09,'DIP');

insert into PersonsLab2 (Name, Reg\_No)

values('Hassan',10);

update PersonsLab2 SET Courses\_Code= 1001 , Offered\_By='Mr.A'

WHERE Name = 'Ikram';

update PersonsLab2 SET Courses = 'DSP',Courses\_Code= 1005 , Offered\_By='Mr.Z'

WHERE Name = 'Hassan';

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## TASK 3:

**Using the DELETE statement, delete the record for the student having name Akram and Ahsan in the above table. Also delete the record for the course having course code=1001.**

**Source Code:**

CREATE TABLE PersonsLab2 (

Name varchar(255),

Reg\_No int,

Courses varchar (255),

Courses\_Code int,

Offered\_By varchar(255)

);

Select \* from PersonsLab2;

insert into PersonsLab2 Values

('Ali',01,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Basit',02,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Akram',03,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Asad',04,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Zeeshan',05,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Muneer',06,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Shafqat',07,'NM',1004,'Mr.H');

insert into PersonsLab2 Values

('Ahsan',08,'OS',1003,'Mr.Y');

insert into PersonsLab2 (Name, Reg\_No, Courses)

values('Ikram',09,'DIP');

insert into PersonsLab2 (Name, Reg\_No)

values('Hassan',10);

update PersonsLab2 SET Courses\_Code= 1001 , Offered\_By='Mr.A'

WHERE Name = 'Ikram';

update PersonsLab2 SET Courses = 'DSP',Courses\_Code= 1005 , Offered\_By='Mr.Z'

WHERE Name = 'Hassan';

DELETE FROM PersonsLab2

Where Name = 'Akram' OR NAME= 'Ahsan'

DELETE FROM PersonsLab2

Where Courses\_Code = 1001

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## TASK 4:

**Select distinct values from the above table for the last three columns.**

**Source Code:**

CREATE TABLE PersonsLab2 (

Name varchar(255),

Reg\_No int,

Courses varchar (255),

Courses\_Code int,

Offered\_By varchar(255)

);

Select \* from PersonsLab2;

insert into PersonsLab2 Values

('Ali',01,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Basit',02,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Akram',03,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Asad',04,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Zeeshan',05,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Muneer',06,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Shafqat',07,'NM',1004,'Mr.H');

insert into PersonsLab2 Values

('Ahsan',08,'OS',1003,'Mr.Y');

insert into PersonsLab2 (Name, Reg\_No, Courses)

values('Ikram',09,'DIP');

insert into PersonsLab2 (Name, Reg\_No)

values('Hassan',10);

update PersonsLab2 SET Courses\_Code= 1001 , Offered\_By='Mr.A'

WHERE Name = 'Ikram';

update PersonsLab2 SET Courses = 'DSP',Courses\_Code= 1005 , Offered\_By='Mr.Z'

WHERE Name = 'Hassan';

SELECT DISTINCT Courses from PersonsLab2

SELECT DISTINCT Courses\_Code from PersonsLab2

SELECT DISTINCT Offered\_By from PersonsLab2

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## TASK 5:

**Sort the above table in descending order by their name.**

**Source Code:**

CREATE TABLE PersonsLab2 (

Name varchar(255),

Reg\_No int,

Courses varchar (255),

Courses\_Code int,

Offered\_By varchar(255)

);

Select \* from PersonsLab2;

insert into PersonsLab2 Values

('Ali',01,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Basit',02,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Akram',03,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Asad',04,'DBMS',1002,'Mr.X');

insert into PersonsLab2 Values

('Zeeshan',05,'DIP',1001,'Mr.A');

insert into PersonsLab2 Values

('Muneer',06,'OS',1003,'Mr.Y');

insert into PersonsLab2 Values

('Shafqat',07,'NM',1004,'Mr.H');

insert into PersonsLab2 Values

('Ahsan',08,'OS',1003,'Mr.Y');

insert into PersonsLab2 (Name, Reg\_No, Courses)

values('Ikram',09,'DIP');

insert into PersonsLab2 (Name, Reg\_No)

values('Hassan',10);

update PersonsLab2 SET Courses\_Code= 1001 , Offered\_By='Mr.A'

WHERE Name = 'Ikram';

update PersonsLab2 SET Courses = 'DSP',Courses\_Code= 1005 , Offered\_By='Mr.Z'

WHERE Name = 'Hassan';

SELECT \* FROM PersonsLab2

ORDER BY Name DESC

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**-----------------------------------------------------THE END-------------------------------------------**