**Bahria University, Lahore Campus**

Department of Computer Sciences

Lab Journal 05

**(Fall 2023)**

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| --- | --- | --- |
| Course: | **Database Management System Lab** | Date: |
| Course Code: | CSL 220 | Max Marks: |
| Faculty’s Name: |  | Lab Engineer: |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enroll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OBJECTIVE:

**The objective of this lab session is to learn Set operations Union, intersection, Except and Aggregate Functions**

|  |  |
| --- | --- |
| Create this table Bikes and insert 5 records | Create this table Cars and insert 5 records |
| create table bikes  (bikes varchar (15),  model varchar (15),  Yearr varchar (15),  colour varchar (15),  owner\_name varchar (15),  owner\_id int ); | create table cars (  car varchar (15),  model varchar (15),  Yearr varchar (15),  colour varchar (15),  owner\_name varchar (15),  owner\_id int ); |

**Task 1**

|  |  |  |
| --- | --- | --- |
|  | Find union of car and owner\_name from both tables |  |
|  | Practice another union statement. |  |
|  | How to find distinct values using union statement |  |
|  | Practice another union all statement |  |

**Task 2**

|  |  |  |
| --- | --- | --- |
|  | Show only 1st row of table bikes |  |
|  | Show 1st three rows in table car |  |
|  | Practice except operator |  |
|  | Find intersection of car and bikes from both tables |  |

**Task 3**

|  |  |  |
| --- | --- | --- |
|  | Show the Count of total numbers of records in table cars |  |
|  | Count total numbers of records in table bikes |  |
|  | Retrieve the total Count number of cars having colour grey |  |
|  | Show the total Count number of cars having model 2011 |  |
|  | Retrieve minimum year in cars |  |
|  | Display minimum model from the table bikes |  |

**Task 4**

|  |  |  |
| --- | --- | --- |
|  | Show maximum year in bikes |  |
|  | Display maximum model from the table cars |  |
|  | Retrieve average owner\_id in cars |  |
|  | Show average model from the table bikes |  |
|  | Find sum of year in cars |  |

**Lab Grading Sheet :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Max Marks** | **Obtained Marks** | **Comments(*if any*)** |
| 1. | 10 |  |  |
| 2. | 10 |  |  |
| 3. | 10 |  |  |
| 4. | 10 |  |  |
| **Total** | **40** |  | **Signature** |

* **Note : Attempt all tasks and get them checked by your Lab. Instructor**