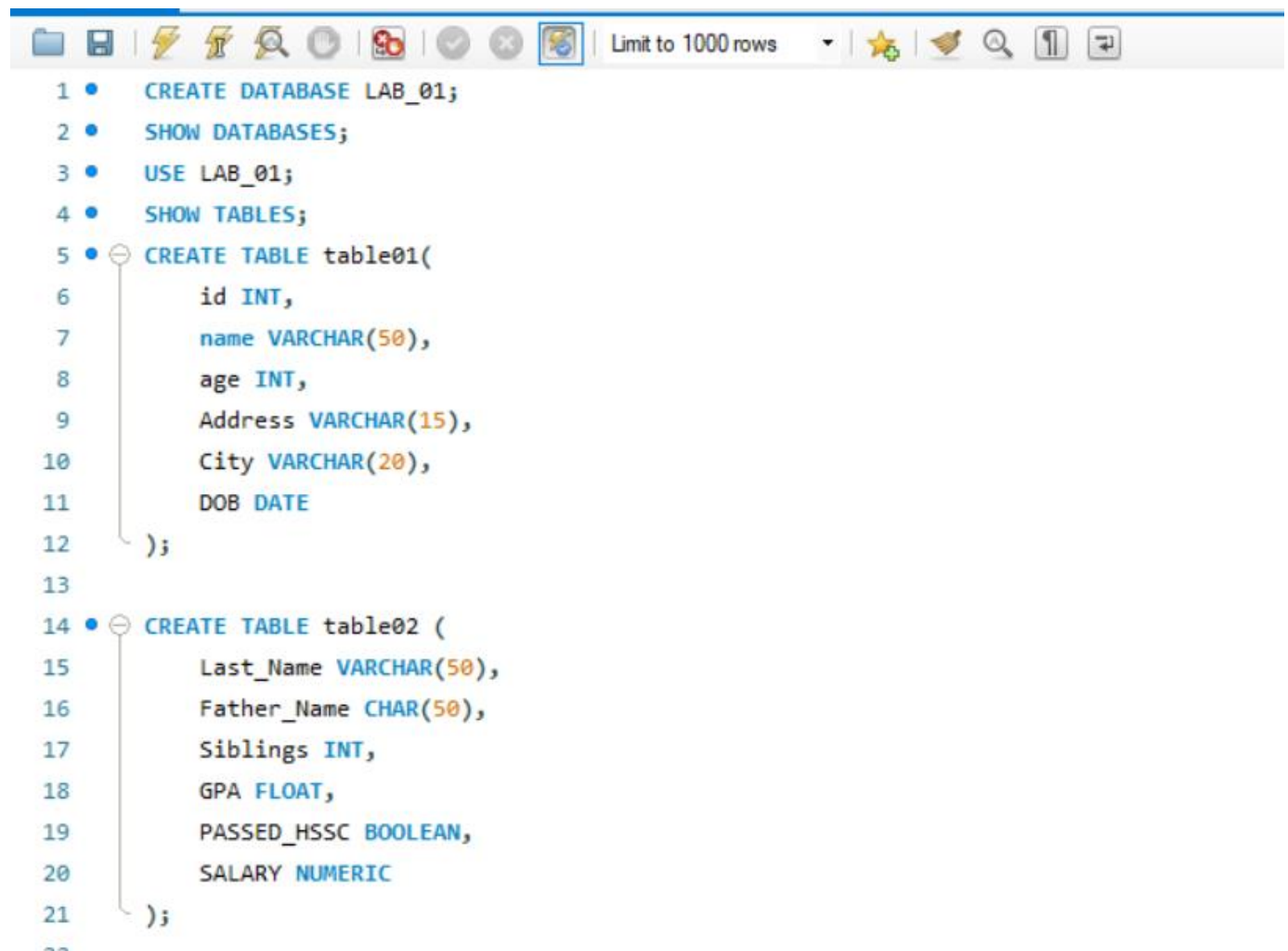


NAME: Muhammad Anas

REG.NO: CS221004

1. Create two tables with at least 6 columns having 4 different data types.



```
1 • CREATE DATABASE LAB_01;
2 • SHOW DATABASES;
3 • USE LAB_01;
4 • SHOW TABLES;
5 • CREATE TABLE table01(
6     id INT,
7     name VARCHAR(50),
8     age INT,
9     Address VARCHAR(15),
10    City VARCHAR(20),
11    DOB DATE
12 );
13
14 • CREATE TABLE table02 (
15     Last_Name VARCHAR(50),
16     Father_Name CHAR(50),
17     Siblings INT,
18     GPA FLOAT,
19     PASSED_HSSC BOOLEAN,
20     SALARY NUMERIC
21 );
22
23
```

```
INSERT INTO table01 (id, name, age, Address, City, DOB)
VALUES (1001, 'Faizan', 22, 'Phase 2', 'Karachi', '2001-06-05'),
       (1003, 'Talha', 19, 'Johar', 'Islamabad', '2004-11-01'),
       (1004, 'Anas', 20, 'Garden', 'Lahore', '2003-12-07'),
       (1005, 'Ali', 21, 'Model', 'Hyderabad', '2002-08-01');
```

2. Show the structure of tables created in (1)

```
--  
22  
23 • DESCRIBE table01;  
24
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Field	Type	Null	Key	Default	Extra
►	id	int	YES		NULL	
	name	varchar(50)	YES		NULL	
	age	int	YES		NULL	
	Address	varchar(15)	YES		NULL	
	City	varchar(20)	YES		NULL	
	DOB	date	YES		NULL	

```
--  
22  
23 • DESCRIBE table02;  
24
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Field	Type	Null	Key	Default	Extra
►	Last_Name	varchar(50)	YES		NULL	
	Father_Name	char(50)	YES		NULL	
	Siblings	int	YES		NULL	
	GPA	float	YES		NULL	
	PASSED_HSSC	tinyint(1)	YES		NULL	
	SALARY	decimal(10,0)	YES		NULL	

3. Insert at least 4 records into the first table using column names.

```
INSERT INTO table01 (id, name, age, Address, City, DOB)
VALUES (1001, 'Faizan', 22, 'Phase 2', 'Karachi', '2001-06-05'),
       (1003, 'Talha', 19, 'Johar', 'Islamabad', '2004-11-01'),
       (1004, 'Anas', 20, 'Garden', 'Lahore', '2003-12-07'),
       (1005, 'Ali', 21, 'Model', 'Hyderabad', '2002-08-01');
```

4) Insert at least 4 records into the second table without using columns name.


```
INSERT INTO table02 VALUES
('KHAN', 'qwe', 3, 3.58, TRUE, 90000),
('Nizamani', 'klm', 3, 3.70, FALSE, 60000),
('Muhammad', 'abc', 3, 3.00, TRUE, 50000),
('Bilal', 'xyz', 1, 3.30, FALSE, 80000);
```

5) With a separate query for each table, show the table data.

```
37 • SELECT * FROM table01;
```

```
38 • SELECT * FROM table02;
```

30

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	Last_Name	Father_Name	Siblings	GPA	PASSED_HSSC	SALARY
	KHAN	qwe	3	3.58	1	90000
	Nizamani	klm	3	3.7	0	60000
	Muhammad	abc	3	3	1	50000
	Bilal	xyz	1	3.3	0	80000

36

```
37 • SELECT * FROM table01;
```

```
38 • SELECT * FROM table02;
```

30

<  Filter Rows: | Export:  | Wrap Cell Cor

	id	name	age	Address	City	DOB
▶	1001	Faizan	22	Phase 2	Karachi	2001-06-05
	1003	Talha	19	Johar	Islamabad	2004-11-01
	1004	Anas	20	Garden	Lahore	2003-12-07
	1005	Ali	21	Model	Hyderabad	2002-08-01

6. Add two columns into any one table

```
40 • ALTER TABLE table01
41     ADD COLUMN Phone_number VARCHAR(20),
42     ADD COLUMN Cnic VARCHAR(100);
43
44
45
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:								
	id	name	age	Address	City	DOB	Phone_number	Cnic
▶	1001	Faizan	22	Phase 2	Karachi	2001-06-05	NULL	NULL
	1003	Talha	19	Johar	Islamabad	2004-11-01	NULL	NULL
	1004	Anas	20	Garden	Lahore	2003-12-07	NULL	NULL
	1005	Ali	21	Model	Hyderabad	2002-08-01	NULL	NULL

7. Alter the data type of any two columns from any table.

```
45
46 • ALTER TABLE table02
47     MODIFY COLUMN SALARY INT,
48     MODIFY COLUMN Father_name VARCHAR(50);
49
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	Last_Name	varchar(50)	YES		NULL	
	Father_name	varchar(50)	YES		NULL	
	Siblings	int	YES		NULL	
	GPA	float	YES		NULL	
	PASSED_HSSC	tinyint(1)	YES		NULL	
	SALARY	int	YES		NULL	

8. Truncate the first table data.

```
50 • TRUNCATE TABLE table01;
```

```
51
```

Output			
Action Output			
#	Time	Action	Message
107	06:49:58	DESCRIBE table02	6 row(s) returned
108	06:52:22	TRUNCATE TABLE table01	0 row(s) affected

9. Delete the third record of the second table

```
52 • Select * from table02;
```

```
53
```

```
54 • DELETE FROM table02 where GPA = 3.00 limit 100;
```

```
55
```

Result Grid						
		Filter Rows:	Export:		Wrap Cell Content:	
	Last_Name	Father_name	Siblings	GPA	PASSED_HSSC	SALARY
▶	KHAN	qwe	3	3.58	1	90000
	Nizamani	klm	3	3.7	0	60000
	Bilal	xyz	1	3.3	0	80000

table02 37 ×

Output			
Action Output			
#	Time	Action	Message
✓ 118	07:01:03	DELETE FROM table02 where GPA = 3.00 limit 100	1 row(s) affected
✓ 119	07:01:11	Select * from table02 LIMIT 0, 1000	3 row(s) returned

10. Update the first record of the second table

```
56 • UPDATE table02
57   SET Last_Name = 'KHAN', Father_name = 'ALI', Siblings = 6, GPA = 1.00, PASSED_HSSC = FALSE, SALARY = 100000
58   where GPA = 3.58 limit 100;
59
```

Output

Action Output

#	Time	Action	Message
✓ 130	07:07:03	SELECT * FROM table02 LIMIT 0, 1000	3 row(s) returned
✓ 131	07:07:48	UPDATE table02 SET Last_Name = 'KHAN', Father_name = 'ALI', Siblings = 6, GPA = 1.00, PASSED_HSSC ...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0
✓ 132	07:07:51	SELECT * FROM table02 LIMIT 0, 1000	3 row(s) returned
✓ 133	07:08:13	UPDATE table02 SET Last_Name = 'KHAN', Father_name = 'ALI', Siblings = 6, GPA = 1.00, PASSED_HSSC ...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0

