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Registration Number:	FA23 – BCE – 060
Lab No:	8
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Class:	BCE – 4A

Lab No. 8

In Lab Task: Create 6 tables along with 15 entries in each table.

1st Table

```
create table name(
fname varchar(25),
lname varchar(25)
);
```

```
insert into name
values ('Muhammad', 'Attiq');
insert into name
values ('Muhammad', 'Kamran');
insert into name
values ('Muhammad', 'Haroon');
insert into name
values ('Muhammad', 'Affan');
```

```
select * from NAME;
```

fname	lname
Muhammad	Attiq
Muhammad	Kamran
Muhammad	Haroon
Muhammad	Affan
Muhammad	Abdul Hadi
Muhammad	Bilal
Muhammad	Ismail
Muhammad	Yousaf
Muhammad	Haider

2nd Table

```
create table FILE_MANAGER(
FIRST_NAME varchar(25),
LAST_NAME varchar(25),
DESIGNATION varchar(25),
NUMBER int );
```

```
insert into FILE_MANAGER
values ('WES', 'BENTLEY', 'MEGASTAR', 988);
insert into FILE_MANAGER
values ('CHRIS', 'EVANS', 'SUPERSTAR', 989);
insert into FILE_MANAGER
values ('CHRIS', 'HEMSWORTH', 'STAR', 990);
insert into FILE_MANAGER
values ('IVAN', 'DRAGO', 'BOXER', 991);
insert into FILE_MANAGER
values ('CHARLIE', 'PUTH', 'SINGER', 992);
insert into FILE_MANAGER
values ('JOHN', 'WICK', 'FICTIONAL CHARACTER', 993);
```

```
select * from FILE_MANAGER;
```

FIRST_NAME	LAST_NAME	DESIGNATION	NUMBER
CHRIS	GALE	SUPERVISOR	987
WES	BENTLEY	MEGASTAR	988
CHRIS	EVANS	SUPERSTAR	989
CHRIS	HEMSWORTH	STAR	990
IVAN	DRAGO	BOXER	991
CHARLIE	PUTH	SINGER	992
JOHN	WICK	FICTIONAL CHARACTER	993
JOHN	CUSACK	ACTOR	994
MICK	FOLEY	WRESTLER	995

3rd Table

```
create table HOTEL(
rooms int,
meal varchar(25),
parking varchar(10)
);
```

```
insert into HOTEL
values ('1', 'Soup', 'Section-3');
insert into HOTEL
values ('2', 'Butter Chicken', 'Section-3');
insert into HOTEL
values ('3', 'Pasta', 'Section-3');
insert into HOTEL
values ('4', 'Italian Pizza', 'Section-3');
insert into HOTEL
values ('5', 'BBQ', 'Section-3');
insert into HOTEL
values ('6', 'Fried Rice', 'Section-3');
insert into HOTEL
values ('7', 'Chicken Wings', 'Section-3');
```

```
select * from hotel;
```

rooms	meal	parking
1	Soup	Section-3
2	Butter Chicken	Section-3
3	Pasta	Section-3
4	Italian Pizza	Section-3
5	BBQ	Section-3
6	Fried Rice	Section-3
7	Chicken Wings	Section-3
8	Soup	Section-3
9	Pasta	Section-3

4th Table

```
create table Result(
serial_no int,
student_name varchar(25),
marks float
);
```

```
insert into result
values ('1', 'Rohan', '997');
insert into result
values ('2', 'Attiq', '998');
insert into result
values ('3', 'Affan', '999');
insert into result
values ('4', 'Kamran', '1000');
insert into result
values ('5', 'Haroon', '1001');
insert into result
values ('6', 'Faizan', '1002');
insert into result
values ('7', 'Idrees', '1003');
insert into result
values ('8', 'Jahanzaib', '1004');
```

```sql
select * from result;
```

serial_no	student_name	marks
1	Rohan	997
2	Attiq	998
3	Affan	999
4	Kamran	1000
5	Haroon	1001
6	Faizan	1002
7	Idrees	1003
8	Jahanzaib	1004
9	Abdul Hadi	1005

5th Table

```sql
create table departments(
department_id int,
department_name varchar(10),
building varchar(10),
phone_number varchar(11)
);
```

```sql
INSERT INTO departments
VALUES
(1, 'CS', 'BlockA', '1234567890'),
(2, 'EE', 'BlockB', '1234567891'),
(3, 'ME', 'BlockC', '1234567892'),
(4, 'CE', 'BlockD', '1234567893'),
(5, 'IT', 'BlockE', '1234567894'),
(6, 'BT', 'BlockF', '1234567895'),
(7, 'MT', 'BlockG', '1234567896'),
(8, 'PH', 'BlockH', '1234567897'),
(9, 'CH', 'BlockI', '1234567898'),
(10, 'EC', 'BlockJ', '1234567899'),
(11, 'AE', 'BlockK', '1234567800'),
(12, 'AR', 'BlockL', '1234567801'),
(13, 'ENV', 'BlockM', '1234567802'),
```

```sql
select * from departments;
```

department_id	department_name	building	phone_number
1	CS	BlockA	1234567890
2	EE	BlockB	1234567891
3	ME	BlockC	1234567892
4	CE	BlockD	1234567893
5	IT	BlockE	1234567894
6	BT	BlockF	1234567895
7	MT	BlockG	1234567896
8	PH	BlockH	1234567897
9	CH	BlockI	1234567898

6th Table

```sql
CREATE TABLE Books (
    book_id INT PRIMARY KEY,
    title VARCHAR(100),
    author VARCHAR(50),
    genre VARCHAR(20),
    publication_year INT
);
```

```sql
INSERT INTO Books
VALUES
('1', 'To Kill a Mockingbird', 'Harper Lee', 'Fiction', '1960'),
('2', '1984', 'George Orwell', 'Dystopian', '1949'),
('3', 'The Great Gatsby', 'F. Scott Fitzgerald', 'Classic', '1925'),
('4', 'The Hobbit', 'J.R.R. Tolkien', 'Fantasy', '1937'),
('5', 'Pride and Prejudice', 'Jane Austen', 'Romance', '1813'),
('6', 'The Catcher in the Rye', 'J.D. Salinger', 'Fiction', '1951'),
('7', 'The Da Vinci Code', 'Dan Brown', 'Thriller', '2003'),
('8', 'Harry Potter and the Sorcerer Stone', 'J.K. Rowling', 'Fantasy', '1997'),
('9', 'The Alchemist', 'Paulo Coelho', 'Adventure', '1988'),
('10', 'The Hero', 'John Cusack', 'Fantasy', '2012'),
('11', 'The Road', 'Cormac McCarthy', 'Post-Apocalyptic', '2006'),
('12', 'The Hunger Games', 'Suzanne Collins', 'Dystopian', '2008'),
```

```sql
select * from books;
```

book_id	title	author	genre	publication_year
1	To Kill a Mockingbird	Harper Lee	Fiction	1960
2	1984	George Orwell	Dystopian	1949
3	The Great Gatsby	F. Scott Fitzgerald	Classic	1925
4	The Hobbit	J.R.R. Tolkien	Fantasy	1937
5	Pride and Prejudice	Jane Austen	Romance	1813
6	The Catcher in the Rye	J.D. Salinger	Fiction	1951
7	The Da Vinci Code	Dan Brown	Thriller	2003
8	Harry Potter and the Sorcerer Stone	J.K. Rowling	Fantasy	1997
9	The Alchemist	Paulo Coelho	Adventure	1988

Critical Analysis

Creating tables in MySQL helps store and organize data in a neat and structured way. It makes finding, updating, and managing information simple and fast. One important benefit is the **CREATE TABLE** syntax, which helps define tables easily. It lets you decide how your data should be stored by specifying column names, data types. Another important command is **INSERT INTO (table name) VALUES**, which allows you to add data into your table. This syntax makes it easy to enter information quickly and efficiently.

Lab Assessment		
Lab Task Evaluation	/6	/10
Lab Report	/4	
Instructor Signature and Comments		