Experiment No: 1

Experiment Name: Create a database system for class 21 where there are 2 table for odd and even batch containing info for 10 students.

Where included (Id, Name, Contact, Blood Group, Major Subject, Obtained Marks (100))

Objective:

1. Get familiar with using XAMPP to work with databases.

2. Know the differences between SQL (Structured Query Language) and NoSQL (Not Only SQL) databases.
3. Learn the difference between Data Manipulation Language (DML) and Data Definition Language (DDL) in SQL.
4. Learn how to use SQL queries to create tables and insert data into a database.
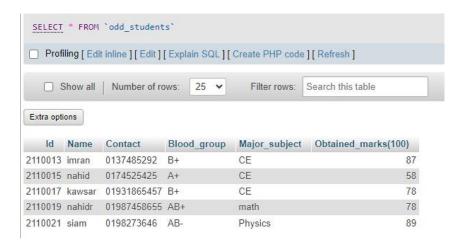5. Practice using queries to solve practical problems and scenarios.

Query And Output:

For odd students:

Query:

```
1  CREATE TABLE `class_21`.`odd_students`
2  (
3      `Id` INT NOT NULL,
4      `Name` TEXT NOT NULL,
5      `Contact` VARCHAR(255) NOT NULL,
6      `Blood_group` VARCHAR(3) NOT NULL,
7      `Major_subject` TEXT NOT NULL,
8      `Obtained_marks(100)` INT NOT NULL
9  );
10
```

```
10
11  INSERT INTO `class_21`.`odd_students`
12  (`Id`, `Name`, `Contact`, `Blood_group`, `Major_subject`, `Obtained_marks(100)`)
13  VALUES
14      (2110013, 'imran', '0137485292', 'B+', 'CE', 87),
15      (2110015, 'nahid', '0174525425', 'A+', 'CE', 58),
16      (2110017, 'kawsar', '01931865457', 'B+', 'CE', 78),
17      (2110019, 'nahidr', '01987458655', 'AB+', 'math', 78),
18      (2110021, 'siam', '0198273646', 'AB-', 'Physics', 89);
19
```

Output:

```
INSERT INTO `class_21`.`odd_students` (`Id`, `Name`, `Contact`, `Blood_group`, `Major_subject`, `Obtained_marks(100)`) VALUES (2110013, 'imran',
'0137485292', 'B+', 'CE', 87), (2110015, 'nahid', '0174525425', 'A+', 'CE', 58), (2110017, 'kawsar', '01931865457', 'B+', 'CE', 78), (2110019,
'nahidr', '01987458655', 'AB+', 'math', 78), (2110021, 'siam', '0198273646', 'AB-', 'Physics', 89);
```

[Edit inline] [Edit] [Create PHP code]

```
SELECT * FROM `odd_students`
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table

Extra options

Id	Name	Contact	Blood_group	Major_subject	Obtained_marks(100)
2110013	imran	0137485292	B+	CE	87
2110015	nahid	0174525425	A+	CE	58
2110017	kawsar	01931865457	B+	CE	78
2110019	nahidr	01987458655	AB+	math	78
2110021	siam	0198273646	AB-	Physics	89

For even students:

Query:

```
CREATE TABLE `class_21`.`even_students`
(
    `Id` INT NOT NULL,
    `Name` TEXT NOT NULL,
    `Contact` VARCHAR(255) NOT NULL,
    `Blood_group` VARCHAR(3) NOT NULL,
    `Major_subject` TEXT NOT NULL,
    `Obtained_marks(100)` INT NOT NULL
);
```

```
CREATE TABLE `class_21`.`even_students` ( `Id` INT NOT NULL, `Name` TEXT NOT NULL, `Contact` VARCHAR(255) NOT NULL, `Blood_group` VARCHAR(3) NOT NULL,
`Major_subject` TEXT NOT NULL, `Obtained_marks(100)` INT NOT NULL );
```

[Edit inline] [Edit] [Create PHP code]

```
1  INSERT INTO `class_21`.`even_students`
2  (`Id`, `Name`, `Contact`, `Blood_group`, `Major_subject`, `Obtained_marks(100)`)
3  VALUES
4      (2110012, 'siam', '0137485292', 'A+', 'CSE', 87),
5      (2110014, 'nahid', '0174525425', 'B+', 'ME', 58),
6      (2110016, 'tariful', '01931865457', 'B+', 'CE', 78),
7      (2110018, 'kawsar', '01987458655', 'O+', 'math', 78),
8      (2110020, 'imran', '0198273646', 'AB+', 'EEE', 89);
9
```

Output:

✔ 5 rows inserted. (Query took 0.0004 seconds.)

INSERT INTO `class_21`.`even_students` (`Id`, `Name`, `Contact`, `Blood_group`, `Major_subject`, `Obtained_marks(100)`) VALUES (2110012, 'siam', '0137485292', 'A+', 'CSE', 87), (2110014, 'nahid', '0174525425', 'B+', 'ME', 58), (2110016, 'tariful', '01931865457', 'B+', 'CE', 78), (2110018, 'kawsar', '01987458655', 'O+', 'math', 78), (2110020, 'imran', '0198273646', 'AB+', 'EEE', 89);

[Edit inline] [Edit] [Create PHP code]

SELECT * FROM `even_students`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Extra options

Id	Name	Contact	Blood_group	Major_subject	Obtained_marks(100)
2110012	siam	0137485292	A+	CSE	87
2110014	nahid	0174525425	B+	ME	58
2110016	tariful	01931865457	B+	CE	78
2110018	kawsar	01987458655	O+	math	78
2110020	imran	0198273646	AB+	EEE	89