"Heaven's Light is Our Guide"

Rajshahi University of Engineering & Technology, Rajshahi.

Department of Electrical & Computer Engineering

Course Code: ECE 2216
Course Title: Data Base systems Sessional
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Experiment No: 01

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

- Id
- Name
- Contact
- Blood group
- Major subject
- Obtained marks

Objective: The objective is to design and implement a basic database management system using XAMPP and MySQL. The system will organize student information for Class 21 into two tables, based on whether the students belong to an even or odd batch. Each table will store key details such as student ID, name, contact information, blood group, major subject, and obtained marks. The goal is to understand how to create, manage, and query databases effectively using phpMyAdmin within the XAMPP environment.

Query & Output:

Query 1: Creating EvenBatch Table

Code:


```sql
CREATE TABLE EvenBatch (
    ID INT PRIMARY KEY,
    Name VARCHAR(100),
    Contact VARCHAR(15),
    BloodGroup VARCHAR(3),
    MajorSubject VARCHAR(50),
    ObtainedMarks INT
);
```
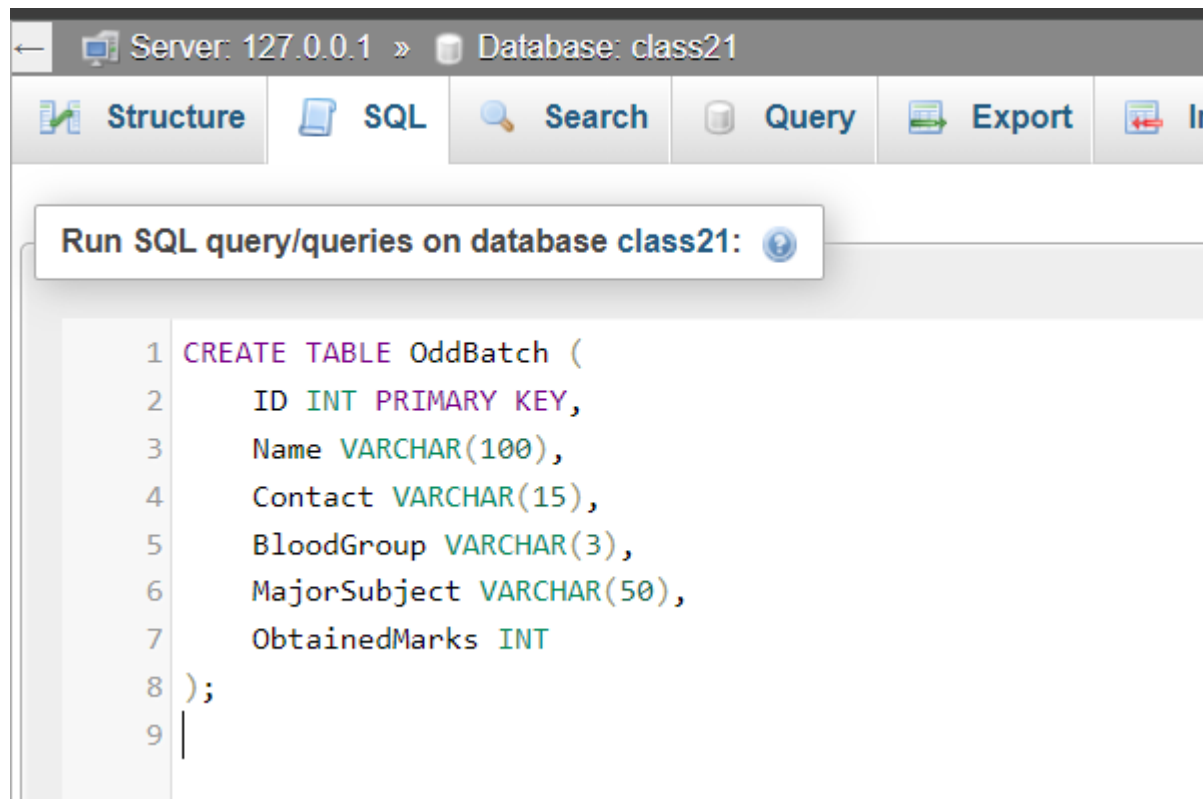
Output:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

CREATE TABLE EvenBatch (ID INT PRIMARY KEY, Name VARCHAR(100), Contact VARCHAR(15), BloodGroup VARCHAR(3), MajorSubject VARCHAR(50), ObtainedMarks INT);

[Edit inline] [Edit] [Create PHP code]
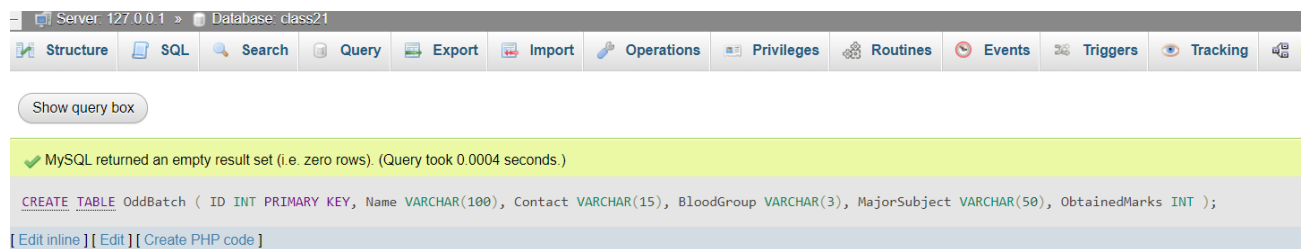
Query 2: Creating the 'OddBatch' Table

Code:

```
Server: 127.0.0.1 » Database: class21

Structure    SQL    Search    Query    Export    I

Run SQL query/queries on database class21:

1  CREATE TABLE OddBatch (
2      ID INT PRIMARY KEY,
3      Name VARCHAR(100),
4      Contact VARCHAR(15),
5      BloodGroup VARCHAR(3),
6      MajorSubject VARCHAR(50),
7      ObtainedMarks INT
8  );
9
```

Output:

```
Server: 127.0.0.1 » Database: class21

Structure    SQL    Search    Query    Export    Import    Operations    Privileges    Routines    Events    Triggers    Tracking

Show query box

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

CREATE TABLE OddBatch ( ID INT PRIMARY KEY, Name VARCHAR(100), Contact VARCHAR(15), BloodGroup VARCHAR(3), MajorSubject VARCHAR(50), ObtainedMarks INT );

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

Query 3: Inserting data into EvenBatch

Code:

Server: 127.0.0.1 » Database: class21 » Table: evenbatch

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations

Run SQL query/queries on table class21.evenbatch:

```
1  INSERT INTO EvenBatch (ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks)
2  VALUES
3  (2110010, 'Rubaid', '123-456-7890', 'A+', 'Computer Science', 85),
4  (2110024, 'Afnan Sajib', '987-654-3210', 'O+', 'Mathematics', 92),
5  (2110022, 'shakkhor sohayel', '555-666-7777', 'O+', 'Physics', 78),
6  (2110016, 'Tonoy ahnaf', '222-333-4444', 'AB+', 'Chemistry', 88),
7  (2110018, 'Shahin', '111-222-3333', 'A-', 'Biology', 81);
8
```

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

Delimiter [;] ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☑ Enable foreign key

Output:

Show query box

✔ 5 rows inserted. (Query took 0.0031 seconds.)

INSERT INTO EvenBatch (ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks) VALUES (2110010, 'Rubaid', '123-456-7890', 'A+', 'Computer Science', 85), (2110024, 'Afnan Sajib', '987-654-3210', 'O+', 'Mathematics', 92), (2110022, 'shakkhor sohayel', '555-666-7777', 'O+', 'Physics', 78), (2110016, 'Tonoy ahnaf', '222-333-4444', 'AB+', 'Chemistry', 88), (2110018, 'Shahin', '111-222-3333', 'A-', 'Biology', 81);

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

Query 4: Inserting data into OddBatch Table

Code:

Server: 127.0.0.1 » Database: class21 » Table: oddbatch

| Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations |

Run SQL query/queries on table class21.oddbatch:

```
1 INSERT INTO OddBatch (ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks)
2 VALUES
3 (2110045, 'arif', '123-789-4560', 'A+', 'English', 90),
4 (2110025, 'fahmid', '987-321-6540', 'B+', 'Economics', 77),
5 (2110057, 'sadi', '444-555-6666', 'O-', 'Sociology', 89),
6 (2110061, 'choton', '111-555-9999', 'AB-', 'History', 84),
7 (2110059, 'galib', '222-111-3333', 'B-', 'Psychology', 95);
8
```

| SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query |

☐ Bind parameters

Bookmark this SQL query: [   ]

| Delimiter | ; | ☐ Show this query here again | ☐ Retain query box | ☐ Rollback when finished | ☑ Enable foreign key che |

Output:

✔ 5 rows inserted. (Query took 0.0055 seconds.)

INSERT INTO OddBatch (ID, Name, Contact, BloodGroup, MajorSubject, ObtainedMarks) VALUES (2110045, 'arif', '123-789-4560', 'A+', 'English', 90), (2110025, 'fahmid', '987-321-6540', 'B+', 'Economics', 77), (2110057, 'sadi', '444-555-6666', 'O-', 'Sociology', 89), (2110061, 'choton', '111-555-9999', 'AB-', 'History', 84), (2110059, 'galib', '222-111-3333', 'B-', 'Psychology', 95);

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

Query 5: Retrieving data from the EvenBatch Table

Code:

| Browse | Structure | SQL | Search | Insert | Export |

Run SQL query/queries on table class21.evenbatch:

```
1 SELECT * FROM `evenbatch`
```

| SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format |

Output:

Extra options

ID	Name	Contact	BloodGroup	MajorSubject	ObtainedMarks
Edit Copy Delete 2110010	Rubaid	123-456-7890	A+	Computer Science	85
Edit Copy Delete 2110016	Tonoy ahnaf	222-333-4444	AB+	Chemistry	88
Edit Copy Delete 2110018	Shahin	111-222-3333	A-	Biology	81
Edit Copy Delete 2110022	shakkhor sohayel	555-666-7777	O+	Physics	78
Edit Copy Delete 2110024	Afnan Sajib	987-654-3210	O+	Mathematics	92

Check all   With selected: Edit   Copy   Delete   Export

Query 6: Retrieving data from the OddBatch Table

Code:

```
Run SQL query/queries on table class21.oddbatch:

1  SELECT * FROM `oddbatch`;
```

SELECT *   SELECT   INSERT   UPDATE   DELETE   Clear   Format

☐ Bind parameters ⓘ

Output:

Extra options

	ID	Name	Contact	BloodGroup	MajorSubject	ObtainedMarks
☐ ✎ Edit ⚏ Copy ⊖ Delete	2110025	fahmid	987-321-6540	B+	Economics	77
☐ ✎ Edit ⚏ Copy ⊖ Delete	2110045	arif	123-789-4560	A+	English	90
☐ ✎ Edit ⚏ Copy ⊖ Delete	2110057	sadi	444-555-6666	O-	Sociology	89
☐ ✎ Edit ⚏ Copy ⊖ Delete	2110059	galib	222-111-3333	B-	Psychology	95
☐ ✎ Edit ⚏ Copy ⊖ Delete	2110061	choton	111-555-9999	AB-	History	84

↑ ☐ Check all   *With selected:* ✎ Edit   ⚏ Copy   ⊖ Delete   ⬛ Export

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾