

ANSI SQL Using MySQL Exercises Solution

➤ Creating table according to the schema

1. Users

Code:

```
CREATE TABLE Users (  
    user_id INT PRIMARY KEY AUTO_INCREMENT,  
    full_name VARCHAR(100) NOT NULL,  
    email VARCHAR(100) UNIQUE NOT NULL,  
    city VARCHAR(100) NOT NULL,  
    registration_date DATE NOT NULL  
);
```

2. Events

Code:

```
CREATE TABLE Events (  
    event_id INT PRIMARY KEY AUTO_INCREMENT,  
    title VARCHAR(200) NOT NULL,  
    description TEXT,  
    city VARCHAR(100) NOT NULL,  
    start_date DATETIME NOT NULL,  
    end_date DATETIME NOT NULL,  
    status ENUM('upcoming', 'completed', 'cancelled'),  
    organizer_id INT,  
    FOREIGN KEY (organizer_id) REFERENCES  
    Users(user_id)  
);
```

3. Sessions

Code:

```
CREATE TABLE Sessions (  
    session_id INT PRIMARY KEY AUTO_INCREMENT,  
    event_id INT,
```

```
title VARCHAR(200) NOT NULL,  
speaker_name VARCHAR(100) NOT NULL,  
start_time DATETIME NOT NULL,  
end_time DATETIME NOT NULL,  
FOREIGN KEY (event_id) REFERENCES  
Events(event_id)  
);
```

4. Registrations

Code:

```
CREATE TABLE Registrations (  
    registration_id INT PRIMARY KEY  
    AUTO_INCREMENT,  
    user_id INT,  
    event_id INT,  
    registration_date DATE NOT NULL,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id),  
    FOREIGN KEY (event_id) REFERENCES  
    Events(event_id)  
);
```

5. Feedback

Code:

```
CREATE TABLE Feedback (  
    feedback_id INT PRIMARY KEY AUTO_INCREMENT,  
    user_id INT,  
    event_id INT,  
    rating INT CHECK (rating BETWEEN 1 AND 5),  
    comments TEXT,  
    feedback_date DATE NOT NULL,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id),  
    FOREIGN KEY (event_id) REFERENCES  
    Events(event_id)  
);
```

6. Resources

Code:

```
CREATE TABLE Resources (  
    resource_id INT PRIMARY KEY AUTO_INCREMENT,
```

```

event_id INT,
resource_type ENUM('pdf', 'image', 'link'),
resource_url VARCHAR(255) NOT NULL,
uploaded_at DATETIME NOT NULL,
FOREIGN KEY (event_id) REFERENCES
Events(event_id)
);

```

➤ Inserting data in the table according to the sample dataset

- Users:

Code:

```

INSERT INTO Users (user_id, full_name, email, city,
registration_date) VALUES
(1, 'Alice Johnson', 'alice@example.com', 'New York',
'2024-12-01'),
(2, 'Bob Smith', 'bob@example.com', 'Los Angeles',
'2024-12-05'),
(3, 'Charlie Lee', 'charlie@example.com', 'Chicago',
'2024-12-10'),
(4, 'Diana King', 'diana@example.com', 'New York',
'2025-01-15'),
(5, 'Ethan Hunt', 'ethan@example.com', 'Los Angeles',
'2025-02-01');

```

- Events

Code:

```

INSERT INTO Events (event_id, title, description,
city, start_date, end_date, status, organizer_id)
VALUES
(1, 'Tech Innovators Meetup', 'A meetup for tech
enthusiasts.', 'New York', '2025-06-10 10:00:00',
'2025-06-10 16:00:00', 'upcoming', 1),
(2, 'AI & ML Conference', 'Conference on AI and ML
advancements.', 'Chicago', '2025-05-15 09:00:00',
'2025-05-15 17:00:00', 'completed', 3),
(3, 'Frontend Development Bootcamp', 'Hands-on
training on frontend tech.', 'Los Angeles', '2025-07-01
10:00:00', '2025-07-03 16:00:00', 'upcoming', 2);

```

- Sessions

Code:

```
INSERT INTO Sessions (session_id, event_id, title,
speaker_name, start_time, end_time) VALUES
(1, 1, 'Opening Keynote', 'Dr. Tech', '2025-06-10
10:00:00', '2025-06-10 11:00:00'),
(2, 1, 'Future of Web Dev', 'Alice Johnson', '2025-06-
10 11:15:00', '2025-06-10 12:30:00'),
(3, 2, 'AI in Healthcare', 'Charlie Lee', '2025-05-15
09:30:00', '2025-05-15 11:00:00'),
(4, 3, 'Intro to HTML5', 'Bob Smith', '2025-07-01
10:00:00', '2025-07-01 12:00:00');
```

- Registrations

Code:

```
INSERT INTO Registrations (registration_id, user_id,
event_id, registration_date) VALUES
(1, 1, 1, '2025-05-01'),
(2, 2, 1, '2025-05-02'),
(3, 3, 2, '2025-04-30'),
(4, 4, 2, '2025-04-28'),
(5, 5, 3, '2025-06-15');
```

- Feedback

Code:

```
INSERT INTO Feedback (feedback_id, user_id,
event_id, rating, comments, feedback_date) VALUES
(1, 3, 2, 4, 'Great insights!', '2025-05-16'),
(2, 4, 2, 5, 'Very informative.', '2025-05-16'),
(3, 2, 1, 3, 'Could be better.', '2025-06-11');
```

- Resources

Code:

```
INSERT INTO Resources (resource_id, event_id,
resource_type, resource_url, uploaded_at) VALUES
(1, 1, 'pdf',
'https://portal.com/resources/tech_meetup_agenda.pdf',
'2025-05-01 10:00:00'),
(2, 2, 'image',
'https://portal.com/resources/ai_poster.jpg', '2025-04-
20 09:00:00'),
(3, 3, 'link', 'https://portal.com/resources/html5_docs',
'2025-06-25 15:00:00');
```