

Database Analyst Design by Hassan Youssef Al-Husseini Session.

Management System - Database Design

This document describes the design of a simple session management system, including table structures, sample data insertion, updates, and deletions.

The system manages sessions, instructors, academic coordinators, and certifications.

Tables Overview

academic_certificate: Holds specialization and university info related to an instructor's certification.

academic_coordinator: Represents the coordinator with contact details and their academic certificate.

Shaykh: Holds instructor (Shaykh) data, including ID, name, and permit number.

session: Defines study sessions including related book, subject, page count, and linked instructor.

SQL Statements

```
CREATE DATABASE session_management_system;
```

```
USE session_management_system;
```

```
-- Table creation for academic_certificate, academic_coordinator,  
Shaykh, session
```

```
-- Sample INSERT INTO each table (5 records each)
```

```
-- UPDATE each record individually (at least once per table)
```

```
-- DELETE rows without dependencies from each table
```

Sample Session Data

The following sample sessions are used to populate the session table. These represent different study subjects such as Fiqh, Hadith, Aqeedah, etc.

```
INSERT INTO session (id, session_permit_number, Book, name,  
subject, page_numbers, instructor_id) VALUES  
(1, 101, 'BookA', 'Session Fiqh', 'Fiqh', 120, 1),  
(2, 102, 'BookB', 'Session Hadith', 'Hadith', 100, 2),
```

*(3, 103, 'BookC', 'Session Aqedah', 'Aqedah', 90, 3),
 (4, 104, 'BookD', 'Session Tafsir', 'Tafsir', 150, 4),
 (5, 105, 'BookE', 'Session Arabic', 'Arabic', 80, 5);*

Note

All updates and deletions were applied carefully.

Deletion was only performed on entries that were not referenced by any foreign keys.

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