

# DevifyX

## MySQL Core Assignment

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### Assignment Title: Freelance Job & Proposal System

Assignment Deadline: 7 Days

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## Objective

- Build a comprehensive **Freelance Job & Proposal System** using **MySQL only**, with no frontend or backend components.
- The system must be fully defined and operable via SQL: database schema, sample data, and queries.

## Core Features

1. **User Management:** Store and manage user profiles for both clients and freelancers.
2. **Job Posting:** Allow clients to create, update, and delete freelance job postings.
3. **Job Categories:** Classify jobs into categories (e.g., Design, Development, Writing).
4. **Proposal Submission:** Enable freelancers to submit proposals to job postings.
5. **Proposal Status Tracking:** Track proposal statuses (e.g., Submitted, Reviewed, Accepted, Rejected).
6. **Messaging System:** Allow basic messaging between clients and freelancers regarding a job.
7. **Job Assignment:** Allow clients to assign jobs to freelancers based on proposals.
8. **Review and Rating:** Enable clients to rate and review freelancers upon job completion.

## Bonus Features

- Implement an audit trail for job and proposal status changes.
- Add support for attachments (e.g., files, links) in proposals.
- Enable reporting features (e.g., number of jobs per category, average rating per freelancer).

- Support for job milestones and partial payments.

## Technical Requirements

- Use only **MySQL** (version 5.7 or above).
- Provide complete database schema: tables, relationships, constraints, and indexes.
- Include sample data for all tables.
- Write SQL queries to demonstrate all core and bonus features.
- Use stored procedures, triggers, and views where appropriate.
- Ensure data integrity through foreign keys and constraints.
- Document all tables and queries with comments.

## Deliverables

- SQL file(s) containing:
  - Database schema (CREATE TABLE statements).
  - Sample data (INSERT statements).
  - SQL queries for all core and bonus features.
  - Stored procedures, triggers, and views (if used).
  - Comments and documentation within the SQL file.
- A brief **README.txt** describing the schema, features, and instructions for running the SQL scripts.

## Use of AI Tools

You are **permitted and encouraged** to use AI-based coding tools such as **GitHub Copilot**, **ChatGPT**, or similar platforms to assist with code generation, debugging, and documentation. However, the final submission should reflect your own understanding and structure.

## Submission

- Submit your assignment using the following form:  
<https://forms.gle/HZxnwbzDnmLzMsqTA>
- Ensure your files are named appropriately (e.g., **freelance\_system.sql**, **README.txt**).

## Evaluation Criteria

- **Correctness:** All core features are implemented and functional.
- **Database Design:** Proper normalization, relationships, and use of constraints.
- **SQL Quality:** Efficient, well-structured, and readable SQL code.
- **Documentation:** Clear comments and explanations in SQL and README.
- **Sample Data:** Representative and comprehensive sample data.
- **Bonus Features:** Implementation and quality of any bonus features.
- **Submission Quality:** Completeness and adherence to requirements.

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