**Assignment: SQL Sleuths — Uncovering Employee Secrets!**

**Mission Brief:**  
Welcome to the *SQL Sleuths Squad*! You’ve been recruited by the fictional HR intelligence unit of a global company. Your mission is to dig through the company's employee database and answer real questions that the CEO, HR manager, and Finance team have been asking. Your tool? SQL. Your playground? The Employees database.

**Step 1: Set Up Your Investigation Base**

1. Unzip the folder
2. Run employees.sql to set up your database structure.
3. Run employees\_data.sql to populate the tables.
4. Make sure to activate the database:

USE employees;

**🧭 Map of the Territory (ERD)**

A computer screen shot of a diagram

AI-generated content may be incorrect.

**Table Cheat Sheet for Rookie Sleuths:**

* employees: Who they are
* departments: Where they work
* dept\_emp: Department assignments
* dept\_manager: Who manages whom
* salaries: How much they earn
* titles: Their job roles

**🕵️ Investigation Tasks**

**Case File A: The Curious Cases of Employee Records (10 marks)**

1. The CEO wants to greet the newest recruits. List the newest 10 employees with their names and hire dates.
2. HR suspects a pattern of new hires post-Y2K. Find all employees hired after the year 2000.
3. There's a bet going on about how many employees are named John. Can you settle it?

**Case File B: Following the Data Trails (20 marks)**  
4. Match employees with their departments. Show full names and department names.  
5. The CEO forgot which managers lead which departments — retrieve that info for the next all-hands.  
6. Some employees are changing roles. Show each employee’s *current* title (hint: it’s the one with to\_date = '9999-01-01').

**Case File C: Crunching Numbers for the CFO (20 marks)**  
7. The CFO wants to know how many people work in each department. Give him the counts.  
8. What’s the average salary across the company? Is it too high?  
9. Which department pays the best? Find the top salary by department.

**Case File D: Salary Secret Levels (10 marks)**  
10. Classify employees into bands:

* <40,000 → 'Low'
* 40,000–80,000 → 'Medium'
* 80,000 → 'High'  
  Return employee number and the band label.

**💯 Marking Scheme (60 Marks)**

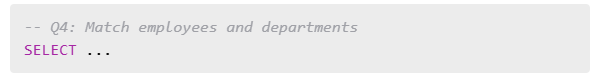
| **Section** | **Questions** | **Marks/Question** | **Total** |
| --- | --- | --- | --- |
| A | 3 | ~3.33 | 10 |
| B | 3 | ~6.66 | 20 |
| C | 3 | ~6.66 | 20 |
| D | 1 | 10 | 10 |
| **Total** | - | - | **60** |

**📝 Grading Rubric:**

* ✅ Full marks: Query works & gives the right answer
* ⚠️ Half marks: Good attempt but has logic or syntax errors
* ❌ No marks: Irrelevant or missing query

**🗂️ How to Submit Your Sleuth Report:**

* Save all queries in a .sql file
* Use comments to label each answer:

**🕓 Deadline:** [Insert your deadline here] — Submit before your squad closes the case!