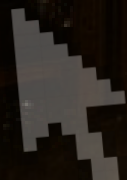# QWERTY

STUDY GUIDE

Purpose: quick, practical primer for the SQL qualification round (Data Detective) and the Inspect & Detect HTML round. Read this before participating.

Module 1 — SQL essentials (what you need to know)
How to open the DB
Use DB Browser for SQLite (free) or any online SQLite runner.

If you have a .db file: File → Open Database.

Core SQL commands
- SELECT column1, column2 FROM table;
- SELECT * FROM table LIMIT 10; — inspect a table
- WHERE → filter rows: SELECT * FROM suspects WHERE age > 30;
- LIKE → partial string matches: WHERE name LIKE '%Ali%'
- ORDER BY → sort: ORDER BY age DESC
- LIMIT → keep only top rows: LIMIT 5
- JOIN → combine tables (optional):
  SELECT a.*, b.clue FROM suspects a JOIN clues b ON a.id = b.suspect_id;

Quick examples
- List all suspects:
SELECT * FROM suspects;

- Find clues for suspect with id 2:
SELECT clue FROM clues WHERE suspect_id = 2;

- Find names of suspects older than 25:
SELECT name FROM suspects WHERE age > 25;

Tips for solving the case
1.Start with SELECT * FROM table LIMIT 10; to see column names and data.
2.Use WHERE to narrow results.
3.If tables look related (id fields), try a JOIN.
4.Use ORDER BY timestamp DESC LIMIT 1 to get latest entry.
5.If stuck, try LIKE '%keyword%' to search text fields.

PART B — HTML inspection basics (for Inspect & Detect)
Open Developer Tools
- Right-click on a page → Inspect (or press F12)
- The Elements panel shows the page's HTML tree.

Where flags are commonly hidden

- HTML comments: <!-- FLAG{something} -->
- Hidden elements: <div style="display:none">FLAG{...}</div>
- Alt text / img attributes: <img alt="FLAG{...}">
- data- attributes:* <div data-flag="FLAG{...}">
- Script variables / console logs: var secret = "FLAG{...}";
- Meta tags or head: <meta name="note" content="FLAG{...}">
- Broken links / hidden pages: Inspect anchors (<a>) for href values.

How to search

- In Elements panel, press Ctrl + F (or Cmd + F) and search for FLAG{ or FLAG
- Open Console tab: sometimes flags are logged with console.log().

Simple commands (Console)

- document.querySelectorAll('*') — returns all elements
- document.body.innerText — shows visible text
- document.querySelector('selector').getAttribute('data-flag') — read attributes

PART C — What a FLAG looks like

- Example formats you will see: FLAG{scinnova001}, FLAG{evidence_02}, FLAG{final_flag}
- Flags may be split across multiple comments or combined (pay attention).

PART D — Rules & conduct (short)

1. Mandatory: read this study guide before competing.
2. Bring your own laptop.
3. Work on the provided DB and provided website only — no external scraping or online searching.
4. Be honest. Any cheating disqualifies the team.
5. Round 2 (Inspect & Detect) is a timed solo speed round — first correct submission wins.

PART E — Quick practice (2 mins each)

1. SQL practice:
   - SELECT name FROM suspects WHERE location = 'Library';

   - Try SELECT * FROM clues WHERE clue LIKE '%crime%';

2. HTML practice:
   - Open any webpage → Inspect → Ctrl+F → search for <!-- to see comments.

   - Try document.body.innerText in Console to view visible page text.

   Good luck — think like a detective, inspect like a coder.