

2025 CpSc H Q10

Section: Database Design and Development

Topic: Implementation Using SQL

Question Summary

Given the Programme table and the SQL query selecting year, genre and the minimum duration for rows where year > 2021, grouped by year and genre, complete the expected output table.

Worked Solution

Filter rows with year > 2021 keep 2023 and 2024 entries. Group by year and genre, then compute MIN(duration) per group. Groups and minima: • 2023, Romance → durations 50 and 40 MIN = 40 • 2023, Sci-Fi → duration 90 MIN = 90 • 2024, Drama → durations 50 and 45 MIN = 45 (Any order of rows is acceptable unless ORDER BY is specified.)

year	genre	Shortest time
2023	Romance	40
2023	Sci-Fi	90
2024	Drama	45

Final Answer

The expected output rows are: (2023, Romance, 40), (2023, Sci-Fi, 90), (2024, Drama, 45).

Revision Tips

- Apply WHERE before grouping.
- Each distinct (year, genre) pair forms one group.
- Aggregate functions like MIN can be named with AS to create a readable column header.
- Without ORDER BY, row order is not guaranteed.

Programme			
title	year	genre	duration
Dr Whitlet	2019	Sci-Fi	45
Game of Action	2020	Drama	30
My Life	2023	Romance	50
Island Life	2024	Drama	50
Red Mirror	2024	Drama	45
Real Love	2023	Romance	40
Kim	2021	Sci-Fi	60
The Dark Sky	2023	Drama	30



year	
genre	Shortest time
2023	40
2023	90
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