

Entrega 3 – Bases de datos

Part C: Queries, Indexing, and Reporting (Week 7–9)

1. Implement at least 5 analytical queries (see Section ??).
2. Create at least 3 indexes. Show `EXPLAIN(ANALYZE)` before/after and discuss.
3. Provide 2 views and 1 materialized view for frequent analyses.
4. Provide a `Makefile` or shell script to recreate the schema and load samples.

Introducción

QUERIES:

1. Average duration of game sessions per map

```
SELECT map_code, AVG( EXTRACT(HOUR FROM (endtime - starttime)) *  
3600 + EXTRACT(MINUTE FROM (endtime - starttime)) * 60 +  
EXTRACT(SECOND FROM (endtime - starttime)) ) AS avg_duration_seconds  
FROM Game GROUP BY map_code;
```

map_code	avg_duration_seconds
EPISODE:3 MAP:5	510.000000000000000000
EPISODE:2 MAP:7	39.000000000000000000
EPISODE:1 MAP:5	1156.5000000000000000
EPISODE:1 MAP:2	518.0000000000000000
EPISODE:4 MAP:1	1844.0000000000000000

Imagen 1. Consulta 1

3. Shortest and longest trajectory distances per player.

Conclusiones