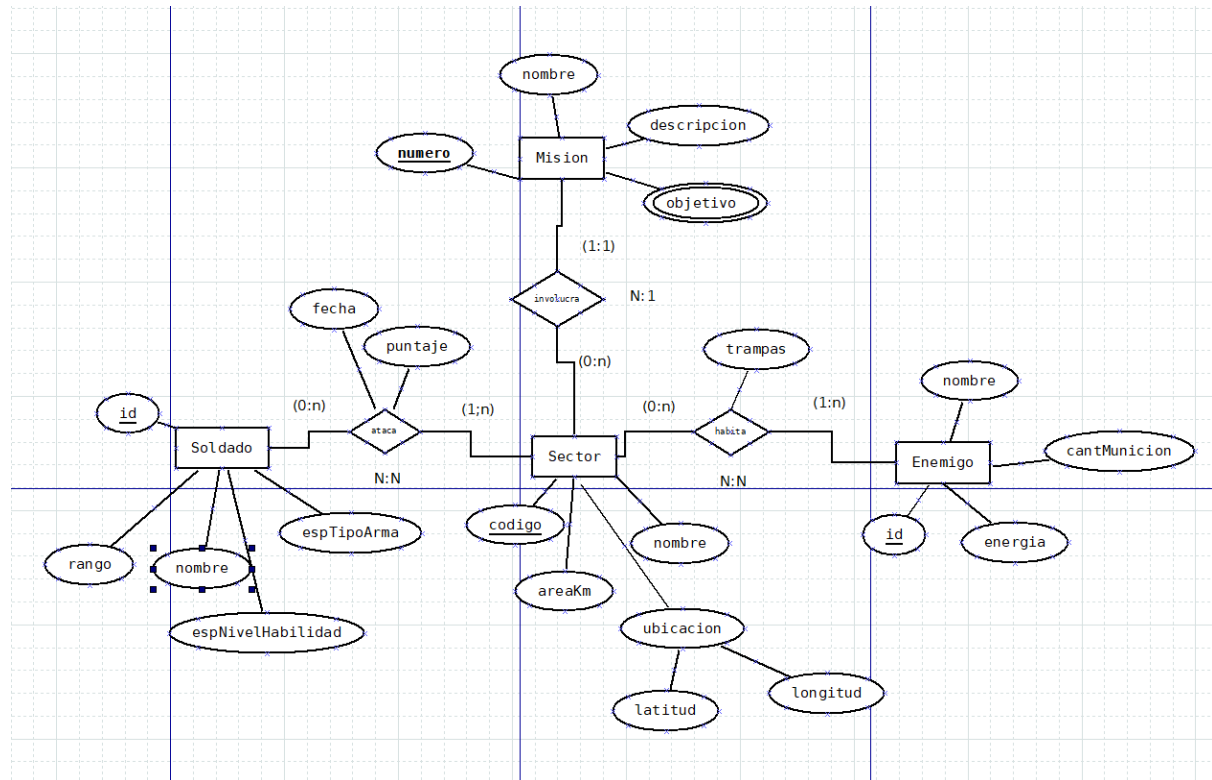
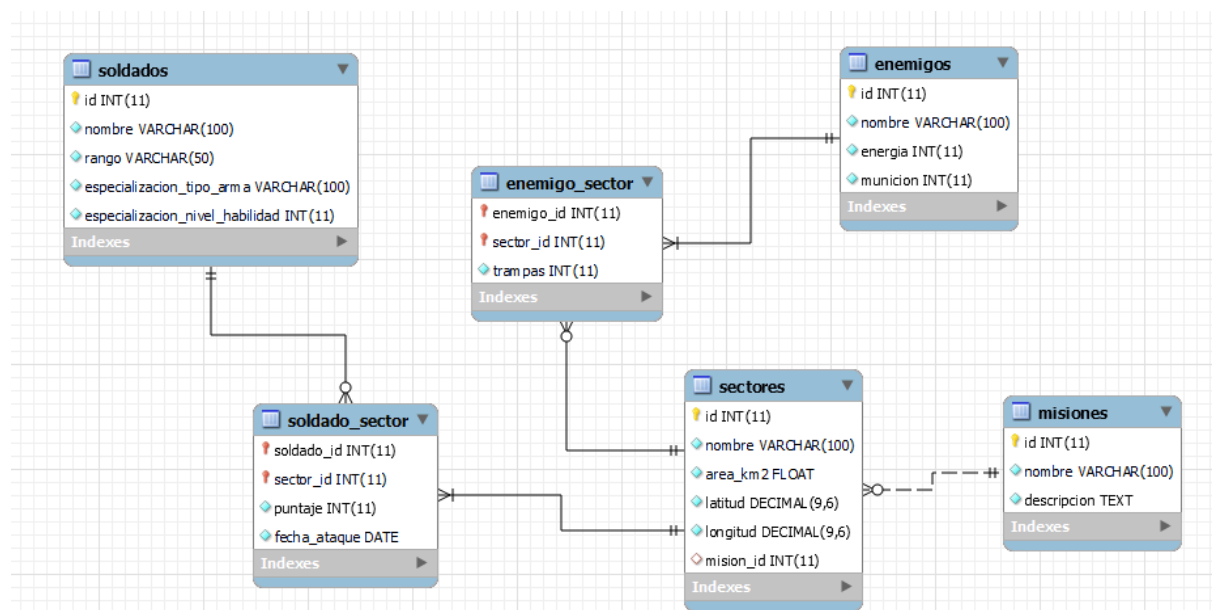


1. Modelado DER



2. Modelado logico



3. Registros

1

USE 'guerrajungla';

2

3

4

INSERT INTO 'enemigos' ('nombre', 'energia', 'municion') VALUES

5

('Enemigo A', 100, 50),

6

('Enemigo B', 120, 40),

7

('Enemigo C', 90, 60),

8

('Enemigo D', 110, 30),

9

('Enemigo E', 95, 55),

10

('Enemigo F', 105, 45);

11

12

13

INSERT INTO 'misiones' ('nombre', 'descripcion') VALUES

14

('Misión Alpha', 'Descripción de la misión Alpha'),

15

('Misión Bravo', 'Descripción de la misión Bravo'),

16

('Misión Charlie', 'Descripción de la misión Charlie'),

17

('Misión Delta', 'Descripción de la misión Delta'),

18

('Misión Echo', 'Descripción de la misión Echo'),

19

('Misión Foxtrot', 'Descripción de la misión Foxtrot');

20

21

22

INSERT INTO 'sectores' ('nombre', 'area_km2', 'latitud', 'longitud', 'mision_id') VALUES

23

('Sector 1', 10.5, 12.345678, 98.765432, 1),

24

('Sector 2', 15.2, 13.345678, 99.765432, 1),

25

('Sector 3', 8.3, 14.345678, 97.765432, 2),

26

('Sector 4', 12.1, 15.345678, 96.765432, 3),

27

('Sector 5', 20.4, 16.345678, 95.765432, 4),

28

('Sector 6', 9.6, 17.345678, 94.765432, 5);

29

30

31

INSERT INTO 'enemigo_sector' ('enemigo_id', 'sector_id', 'trampas') VALUES

32

(1, 1, 5),

33

(2, 2, 6),

34

(3, 3, 4),

35

(4, 4, 7),

36

(5, 5, 8),

37

(6, 6, 3);

38

39

40

INSERT INTO 'soldados' ('nombre', 'rango', 'especializacion_tipo_arma', 'especializacion_nivel_habilidad') VALUES

41

('Soldado A', 'Capitán', 'Rifle', 5),

42

('Soldado B', 'Teniente', 'Pistola', 4),

43

('Soldado C', 'Sargento', 'Francotirador', 6),

44

('Soldado D', 'Cabo', 'Escopeta', 3),

45

('Soldado E', 'Mayor', 'Rifle', 7),

46

('Soldado F', 'General', 'Lanzagranadas', 8);

47

48

49

INSERT INTO 'soldado_sector' ('soldado_id', 'sector_id', 'punteaje', 'fecha_ataque') VALUES

50

(1, 1, 300, '2024-01-01'),

51

(2, 2, 250, '2024-01-02'),

52

(3, 3, 400, '2024-01-03'),

53

(4, 4, 350, '2024-01-04');

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	17:55:50	INSERT INTO 'enemigos' ('nombre', 'energia', 'municion') VALUES (Enemigo A', 100, 50), (Enemigo B', 120, 40), (Enemigo C', 90, 60), (Enemigo D', 110, 30), (Enemigo E', 95, 55), (Enemigo F', 105, 45);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.016 sec
19	17:55:50	INSERT INTO 'misiones' ('nombre', 'descripcion') VALUES (Misión Alpha', 'Descripción de la misión Alpha'), (Misión Bravo', 'Descripción de la misión Bravo'), (Misión Charlie', 'Descripción de la misión Charlie'), (Misión Delta', 'Descripción de la misión Delta'), (Misión Echo', 'Descripción de la misión Echo'), (Misión Foxtrot', 'Descripción de la misión Foxtrot');	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
20	17:55:50	INSERT INTO 'sectores' ('nombre', 'area_km2', 'latitud', 'longitud', 'mision_id') VALUES (Sector 1', 10.5, 12.345678, 98.765432, 1), (Sector 2', 15.2, 13.345678, 99.765432, 1), (Sector 3', 8.3, 14.345678, 97.765432, 2), (Sector 4', 12.1, 15.345678, 96.765432, 3), (Sector 5', 20.4, 16.345678, 95.765432, 4), (Sector 6', 9.6, 17.345678, 94.765432, 5);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
21	17:55:50	INSERT INTO 'enemigo_sector' ('enemigo_id', 'sector_id', 'trampas') VALUES (1, 1, 5), (2, 2, 6), (3, 3, 4), (4, 4, 7), (5, 5, 8), (6, 6, 3);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
22	17:55:50	INSERT INTO 'soldados' ('nombre', 'rango', 'especializacion_tipo_arma', 'especializacion_nivel_habilidad') VALUES (Soldado A', 'Capitán', 'Rifle', 5), (Soldado B', 'Teniente', 'Pistola', 4), (Soldado C', 'Sargento', 'Francotirador', 6), (Soldado D', 'Cabo', 'Escopeta', 3), (Soldado E', 'Mayor', 'Rifle', 7), (Soldado F', 'General', 'Lanzagranadas', 8);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.016 sec
23	17:55:50	INSERT INTO 'soldado_sector' ('soldado_id', 'sector_id', 'punteaje', 'fecha_ataque') VALUES (1, 1, 300, '2024-01-01'), (2, 2, 250, '2024-01-02'), (3, 3, 400, '2024-01-03'), (4, 4, 350, '2024-01-04');	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec

4 consultas

56 • `SELECT id, nombre`
57 `FROM Soldados`
58 `WHERE rango = 'Capitán';`

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | **Result Grid**
Form Editor

	id	nombre
1		Soldado A
	NULL	NULL

Soldados1 x | Apply | Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	17:55:50	INSERT INTO 'misiones' ('nombre', 'descripci...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
20	17:55:50	INSERT INTO 'sectores' ('nombre', 'area_km2...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
21	17:55:50	INSERT INTO 'enemigo_sector' ('enemigo_id'...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
22	17:55:50	INSERT INTO 'soldados' ('nombre', 'rango', 'e...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.016 sec
23	17:55:50	INSERT INTO 'soldado_sector' ('soldado_id', ...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
24	17:59:59	SELECT id, nombre FROM Soldados WHERE ...	1 row(s) returned	0.000 sec / 0.000 sec

59 • `SELECT m.nombre`
60 `FROM Sectores s`
61 `INNER JOIN Misiones m ON s.mision_id = m.id`
62 `WHERE s.nombre = 'Sector 1';`
63

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | **Result Grid**
Form Editor

	nombre
1	Misión Alpha

Result 2 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	17:55:50	INSERT INTO 'sectores' ('nombre', 'area_km2...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
21	17:55:50	INSERT INTO 'enemigo_sector' ('enemigo_id'...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
22	17:55:50	INSERT INTO 'soldados' ('nombre', 'rango', 'e...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.016 sec
23	17:55:50	INSERT INTO 'soldado_sector' ('soldado_id', ...	6 row(s) affected Records: 6 Duplicates: 0 W...	0.000 sec
24	17:59:59	SELECT id, nombre FROM Soldados WHERE ...	1 row(s) returned	0.000 sec / 0.000 sec
25	18:00:38	SELECT m.nombre FROM Sectores s INNER ...	1 row(s) returned	0.000 sec / 0.000 sec

- ```
SELECT e.nombre, e.energia
FROM Enemigos e
INNER JOIN Enemigo_Sector es ON e.id = es.enemigo_id
INNER JOIN Sectores s ON es.sector_id = s.id
WHERE s.nombre = 'Sector 1';
```

Result Grid

Filter Rows:  Export: Wrap Cell Content:

Nombre

Sección Alpha

2 x Read Only

Action Output

|    | Time     | Action                                           | Message                                         | Duration / Fetch      |
|----|----------|--------------------------------------------------|-------------------------------------------------|-----------------------|
| 20 | 17:55:50 | INSERT INTO 'sectores' ('nombre', 'area_km2...   | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 21 | 17:55:50 | INSERT INTO 'enemigo_sector' ('enemigo_id'...    | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 22 | 17:55:50 | INSERT INTO 'soldados' ('nombre', 'rango', 'e... | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.016 sec             |
| 23 | 17:55:50 | INSERT INTO 'soldado_sector' ('soldado_id', ...  | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 24 | 17:59:59 | SELECT id, nombre FROM Soldados WHERE ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |
| 25 | 18:00:38 | SELECT m.nombre FROM Sectores s INNER ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |

```
68 • SELECT m.nombre, COUNT(s.id) AS cantidad_sectores
69 FROM Misiones m
70 INNER JOIN Sectores s ON m.id = s.mision_id
71 GROUP BY m.id, m.nombre;
72
73
74
75
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

| nombre       |
|--------------|
| Misión Alpha |

Result 2 x Read Only

Output

Action Output

| #  | Time     | Action                                           | Message                                         | Duration / Fetch      |
|----|----------|--------------------------------------------------|-------------------------------------------------|-----------------------|
| 20 | 17:55:50 | INSERT INTO 'sectores' ('nombre', 'area_km2...   | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 21 | 17:55:50 | INSERT INTO 'enemigo_sector' ('enemigo_id'...    | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 22 | 17:55:50 | INSERT INTO 'soldados' ('nombre', 'rango', 'e... | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.016 sec             |
| 23 | 17:55:50 | INSERT INTO 'soldado_sector' ('soldado_id', ...  | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 24 | 17:59:59 | SELECT id, nombre FROM Soldados WHERE ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |
| 25 | 18:00:38 | SELECT m.nombre FROM Sectores s INNER ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |

```
72 • SELECT s.nombre, SUM(ss.puntaje) AS total_puntaje
73 FROM Soldados s
74 INNER JOIN Soldado_Sector ss ON s.id = ss.soldado_id
75 GROUP BY s.id, s.nombre;
76
```

Result Grid

nombre

Misión Alpha

Result 2 x

Read Only

Output

Action Output

| #  | Time     | Action                                           | Message                                         | Duration / Fetch      |
|----|----------|--------------------------------------------------|-------------------------------------------------|-----------------------|
| 20 | 17:55:50 | INSERT INTO 'sectores' ('nombre', 'area_km2...   | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 21 | 17:55:50 | INSERT INTO 'enemigo_sector' ('enemigo_id'...    | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 22 | 17:55:50 | INSERT INTO 'soldados' ('nombre', 'rango', 'e... | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.016 sec             |
| 23 | 17:55:50 | INSERT INTO 'soldado_sector' ('soldado_id', ...  | 6 row(s) affected Records: 6 Duplicates: 0 W... | 0.000 sec             |
| 24 | 17:59:59 | SELECT id, nombre FROM Soldados WHERE ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |
| 25 | 18:00:38 | SELECT m.nombre FROM Sectores s INNER ...        | 1 row(s) returned                               | 0.000 sec / 0.000 sec |