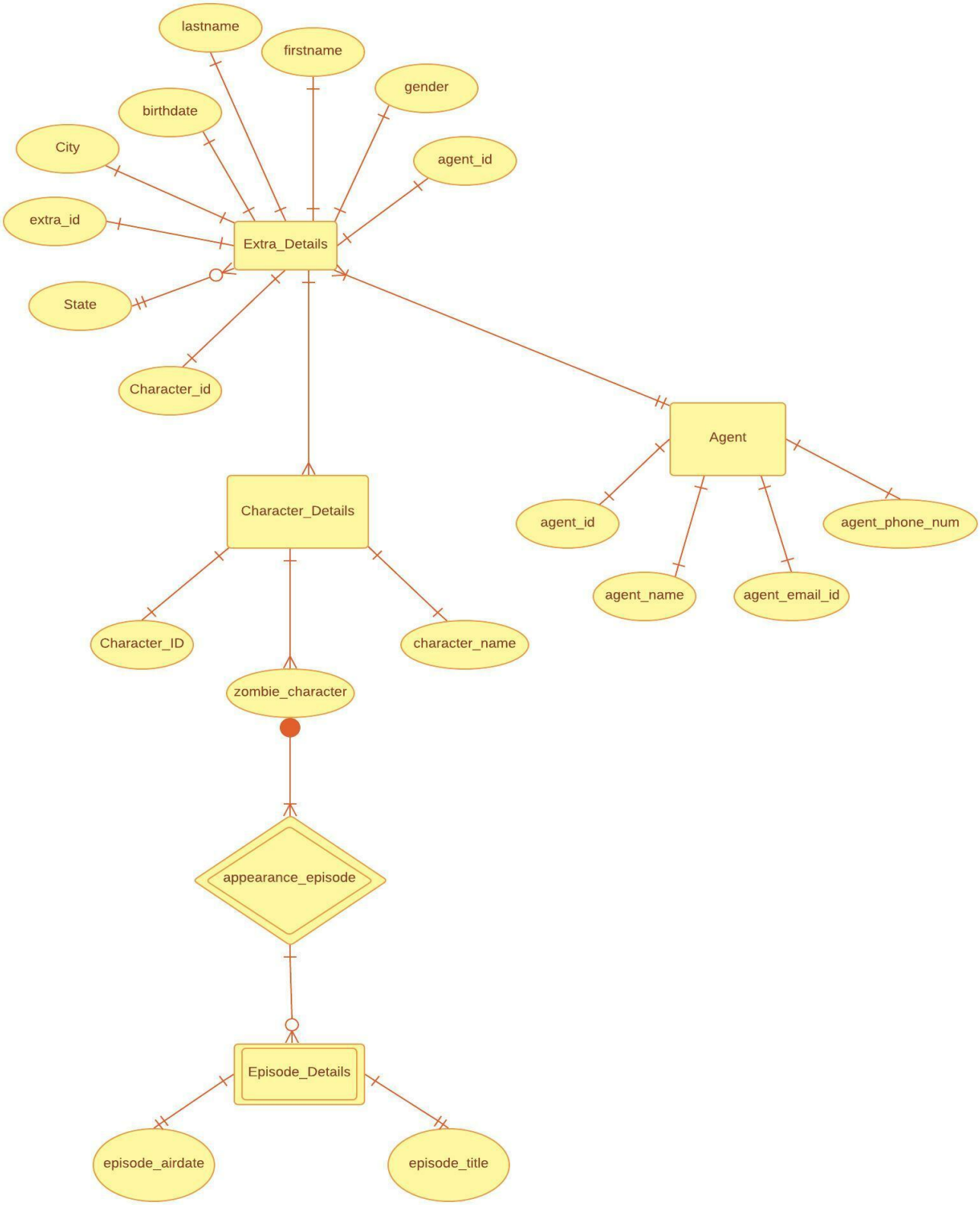
Solutions\Answers:

1. **A.)** Entities
2. **B.)** Weak
3. **B.)** A Strong Entity Associated with its Weak Entity
4. **A.)** Attributes
5. **B.)** One
6. **C.)** Ternary
7. **A.)** Derived
8. **A.)** A person can marry at most one person
9. **C.)** A department can have more than one employee
10. **A.)** Each patient has one or more patient histories.
11. **A.)** Each vendor can supply many parts to any number of warehouses, but need not supply any parts
12. **B.)** Many-to-many
13. **B.)** Time stamp
14. **A.)** True
15. **A.)** True
16. **A.)** True
17. **A.)** False
18. **A.)** True
19. **A.)** DML
20. **C.)** Create Database
21. **C.)** Drop table
22. **D.)** Union
23. **B.)** Derived table
24. **A.)** Equi-join
25. **A.)** All rows of ORDER_T table regardless of matches with the CUSTOMER_T table
26. **D.)** Self – join
27. **B.)** Sub-Query
28. **C.)** Exists
29. **B.)** Sub-Query
30. **C.)** Called by name
31. **A.)** True
32. **A.)** False
33. **A.)** True
34. **A.)** True
35. **A.)** True
36. **A.)** Tall Client
37. **A.)** API
38. **A.)** Database Server

39. **C.)** Define Physical Storage
40. **B.)** Concurrency Control
41. **C.)** Lock Granularity
42. **B.)** Exclusive Lock
43. **A.)** Normalized Relations
44. **A.)** Field
45. **B.)** CHAR
46. **C.)** Blob or Binary
47. **A.)** A Data Warehouse centralizes data from disparate operational systems and makes them readily available for decision support applications.
48. **C.)** Data Warehouse that is limited in scope or subject.
49. **B.)** Data are immediately transformed and loaded into warehouse.
50. **B.)** Grain

51. **A.)** ERD:


lastname
firstname
gender
birthdate
City
agent_id
extra_id
Extra_Details
State
Character_id
Agent
Character_Details
agent_id
agent_phone_num
agent_name
agent_email_id
Character_ID
character_name
zombie_character
appearance_episode
Episode_Details
episode_airdate
episode_title

For the queries in Q.51-part B.) and C.) we have created 4 tables based on the scenarios explained

1. **Extra_Details**
   Columns(extra_id , firstname , lastname , birthdate , gender , city , state , agent_id , Character_id **)**
2. **Agent**
   Columns(agent_id , agent_name , agent_email_id , agent_phone_num **)**
3. **Character_Details**
   Columns (Character_id , zombie_character , appearance_episode , character_name **)**
4. **Episode_Details**
   Columns (episode_title , episode_airdate , appearance_episode **)**

(B.)

```
Select concat(e.firstname, e.lastname) as e.name ,e.gender ,e.city , e.state
from Extra_Details as e
where e.city = 'Atlanta' and e.state = 'Georgia';
```

(C.)

```
Select e.* from Extra_Details as e
inner join Character_Details as z
on e.Character_id = z.Character_id
where z.character_name = 'Creepy crawler' ;
```