

The slide features a light beige background with abstract shapes. On the left, a large olive-green circle contains a faint line drawing of a leafy branch. On the right, a large, solid reddish-brown shape is partially visible. A thin white line curves across the bottom of the slide. The title 'Assignment 5' is centered in a large, dark brown serif font.

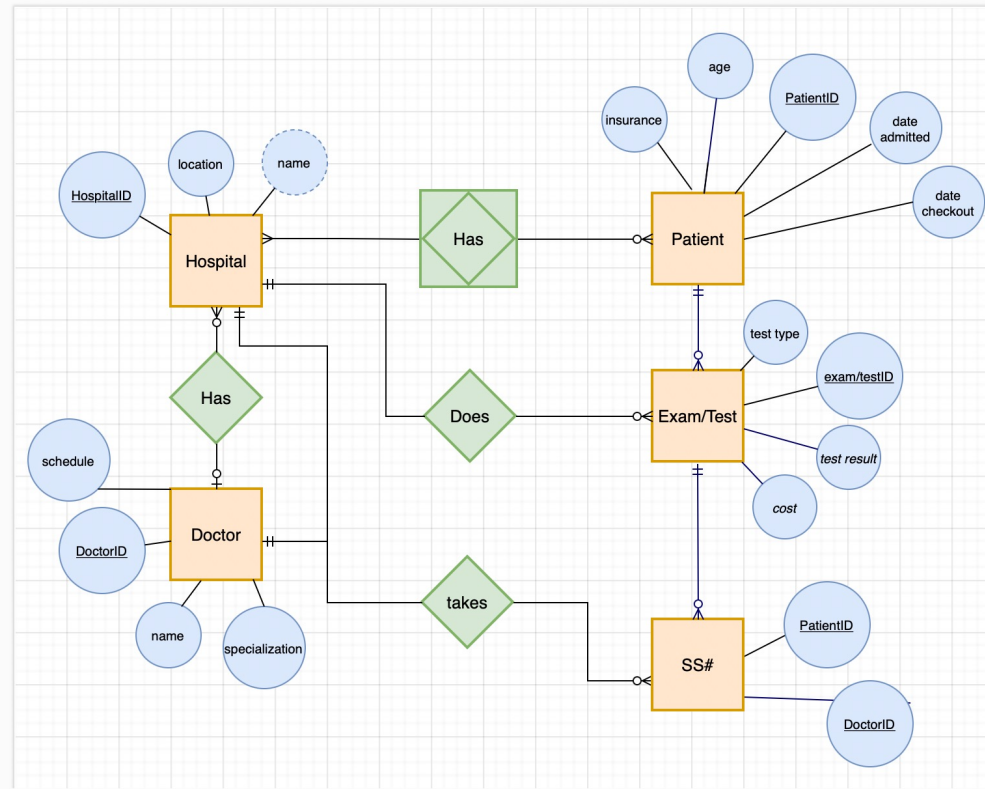
# Assignment 5

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## Question 2



# Question 3

Q. We can convert any weak entity set to a strong entity set by simply adding appropriate attributes. Why, then, do we have weak entity sets?

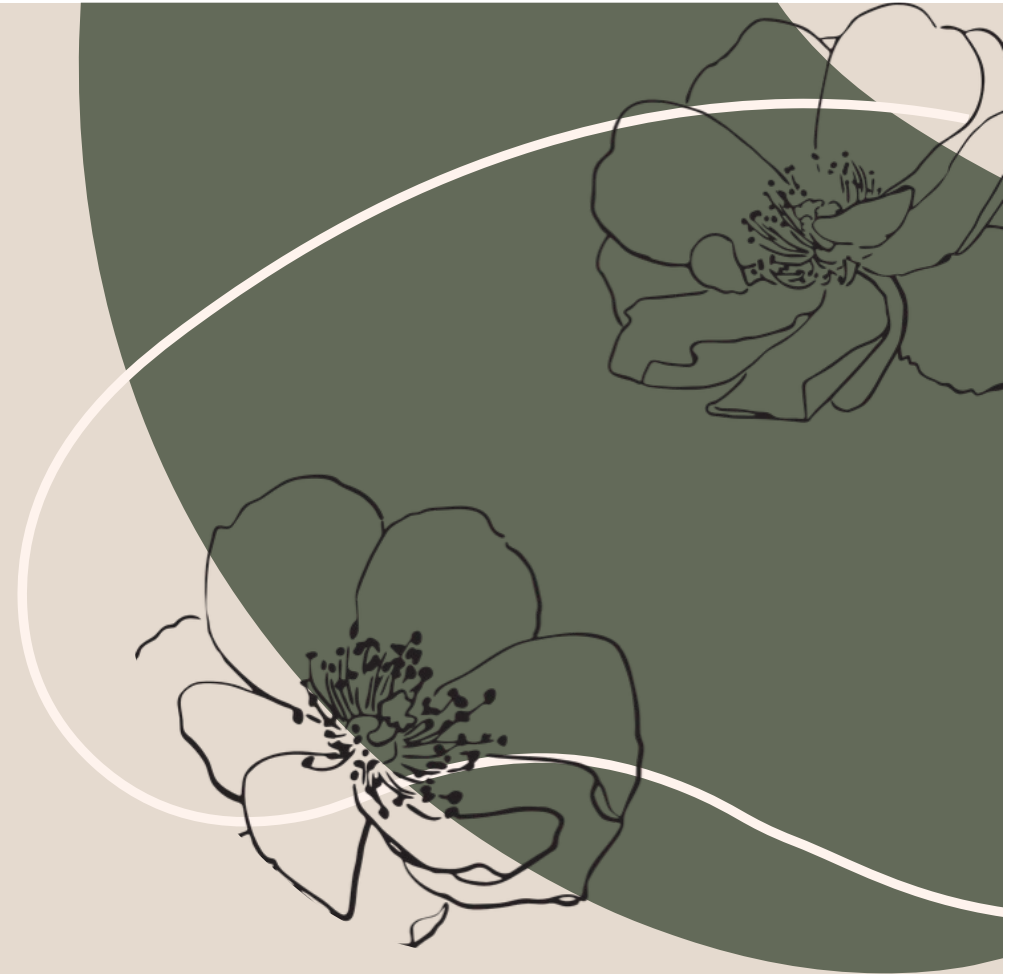
Answer:

1. can be stored physically with their strong entities.
2. Weak entities can be deleted automatically when their strong entity is deleted.
3. They show the logical structure of an entity being dependent on another entity



## Question 4

- i. Select employee.ID, person\_name  
from employee inner join works on  
employee.ID = works.ID inner join  
company on Works.company\_name =  
company.company\_name where  
employee.city = company.city;



## Question 4

ii.

select A.ID,A.person\_name

from employee A, employee B, manages M

where A.ID = M.ID and

M.manager\_id= B.ID and

A.street = B.street and A.city = B.city



# Question 4

iii.

```
SELECT employee.ID,  
employee.person_name
```

```
FROM employee
```

```
INNER JOIN works
```

```
ON employee.ID = works.ID
```

```
GROUP BY works.company_name
```

```
HAVING works.salary >  
AVG(works.salary);
```



## Question 4b

Q. Consider the following SQL query that seeks to find a list of titles of all courses taught in Spring 2017 along with the name of the instructor.

Select name, title

From instructor natural join teaches natural join  
section natural join course

where semester = 'Spring' and year = 2017  
What is wrong with this query?

Answer: It's wrong because dept\_name is an attribute of both course and instructor as a result of the natural join results are shown only when an instructor teaches a course in his/her department





# Thank you

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