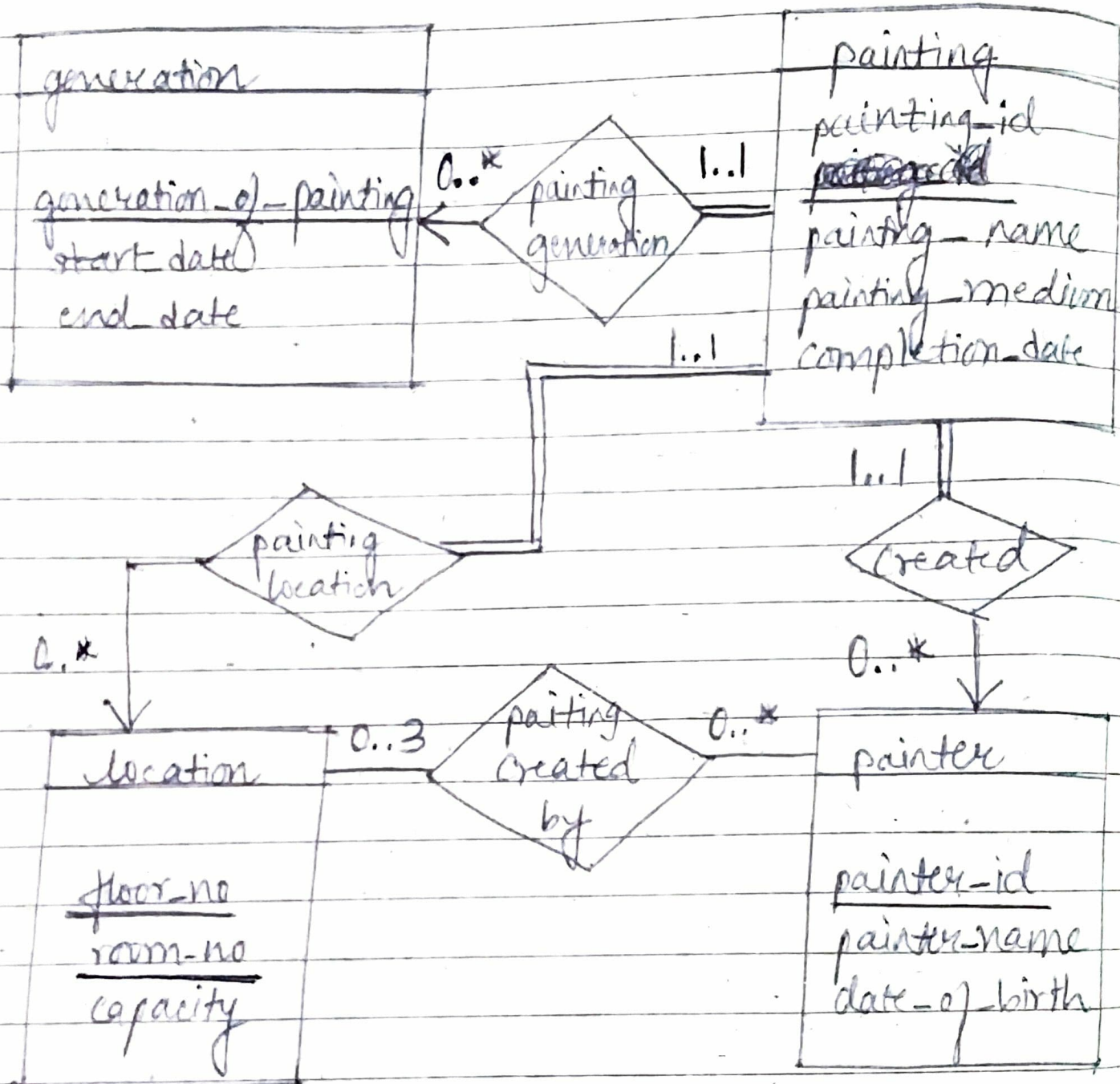RADHIKA PATWARI

18CSI0062

Assumptions

- Each painting has only one painter
- Each painting must have a painter
- One painter can have many paintings
- Each painting must have a generation.
- A painter may or may not have a painting.

- One painting can have only one generation

- One generation can have many paintings

- A generation may not have any painting

- Each painting must belong to a location.

- One painting can have only one location

- location is determined by <roomno, roomno> which is the primary key for location entity.

- One one museum building present

- Each location can contain ~~00000~~ many paintings belonging to 0 to 3 painters only.
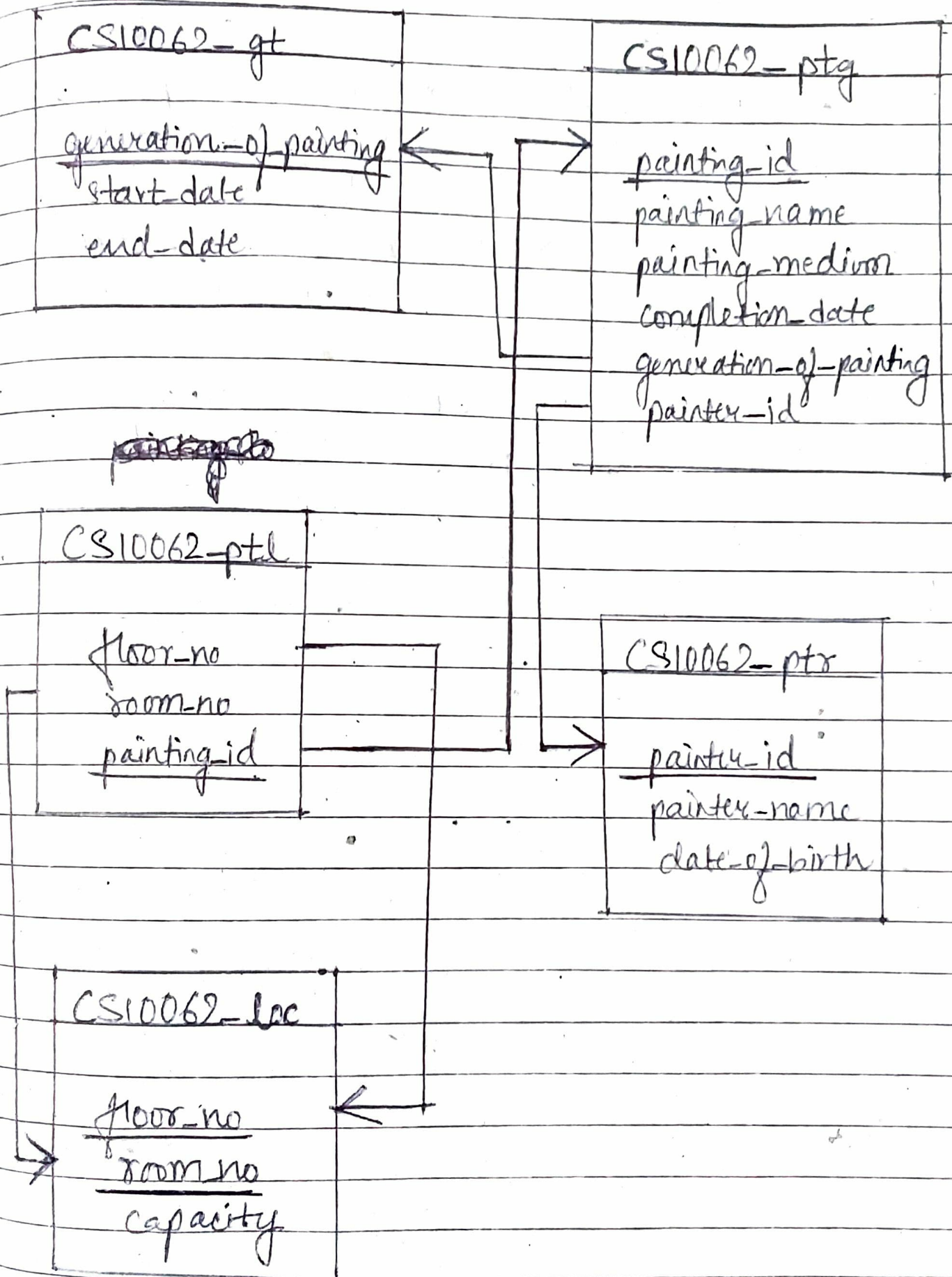
RADHIKA PATWARI

18CS10062

(a)   ER Diagram

generation
| generation_of_painting |
| start_date |
| end_date |

painting generation

0..*   1..1

painting
| painting-id |
| ~~painting-id~~ |
| painting-name |
| painting-medium |
| completion-date |

1..1

1..1

painting location

created

0..*   0..*

location
| floor-no |
| room-no |
| capacity |

0..3   painting created by   0..*

painter
| painter-id |
| painter-name |
| date-of-birth |

(b)   Database Schema

CSI0062 - gt

generation-of-painting
start-date
end-date

CSI0062 - ptg

painting-id
painting-name
painting-medium
completion-date
generation-of-painting
painter-id

CSI0062 - ptl

floor-no
room-no
painting-id

CSI0062 - ptr

painter-id
painter-name
date-of-birth

CSI0062 - loc

floor-no
room-no
capacity

(C) ~~Return the~~

Return all paintings along with the painter
name, the start date of the generation to which
the painting belongs, and the number of
paintings present in the room of the museum
where this painting is located.

< painting_id, painting_name painter-name,
generation_of_painting, start_date, capacity >