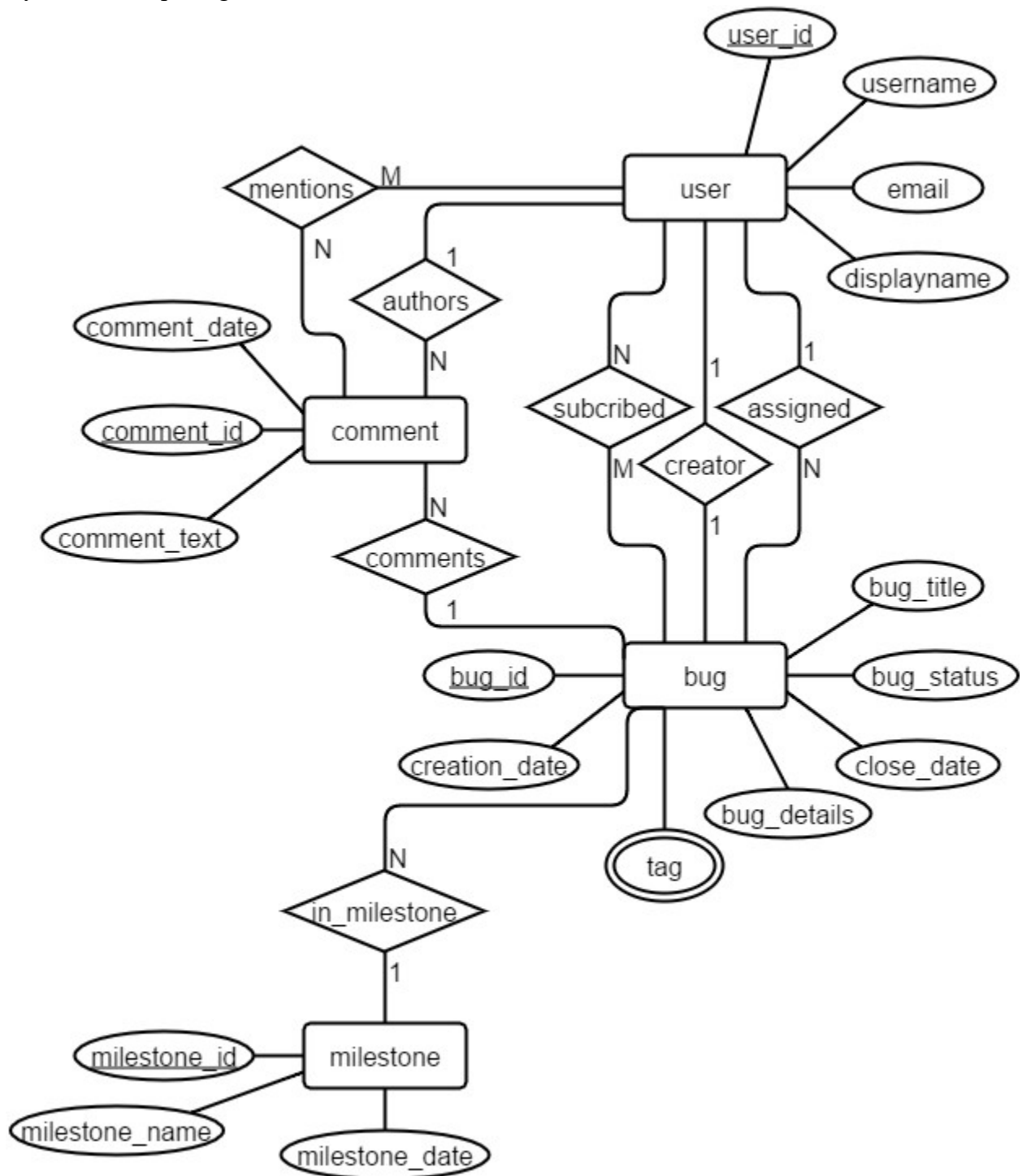


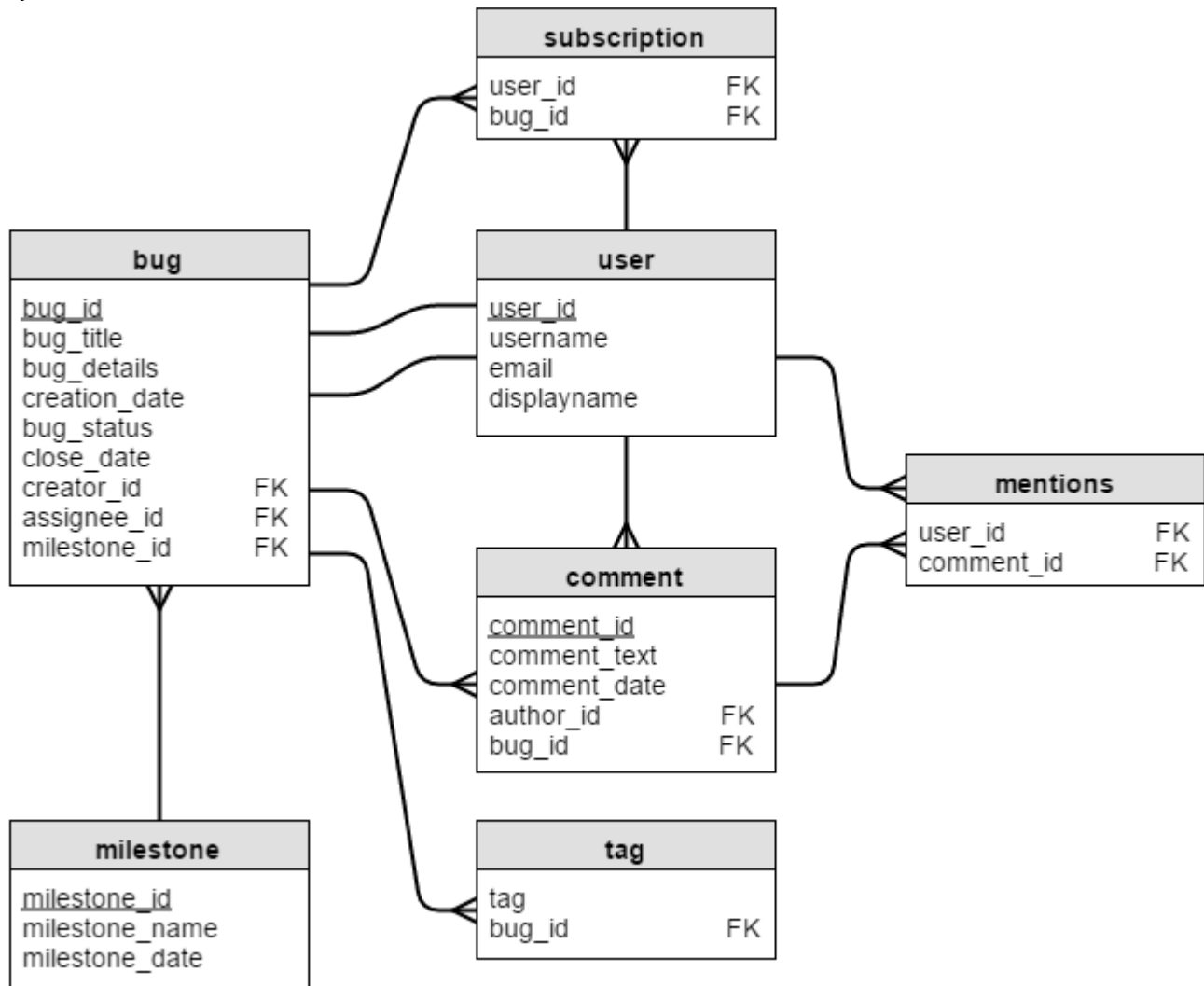
Project Draft

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Entity Relationship Diagram:



Physical Model:



Example Queries:

1. – all the open bugs from username 666 that have an open status
– with a particular tag

```
SELECT tag, username, bug_status, bug_title, bug_details
FROM bug
JOIN tag USING (bug_id)
JOIN user ON (creator_id = user_id)
WHERE username = '666' AND tag = '123' AND status = 'open'
```

2. – shows each bug and its assignee
– even if there is no assignee

```
SELECT bug_id, bug_title, COALESCE(username, 'none')
FROM bug
LEFT OUTER JOIN user ON (assignee_id = user_id)
```

3. – shows the number of open bugs in a milestone

```
SELECT milestone_id, milestone_name, COUNT(bug_id)
FROM milestone
JOIN bug USING (milestone_id)
WHERE milestone_id = '666' AND status = 'open'
GROUP BY milestone_id, milestone_name
```

CUSTOM FEATURES

1. Milestones: bugs can be assigned to a milestone and user can view the bugs for that milestone.
2. Mentions: Users can mention other users in bug comments. Users will be able to collaborate on the same bug via the comments.