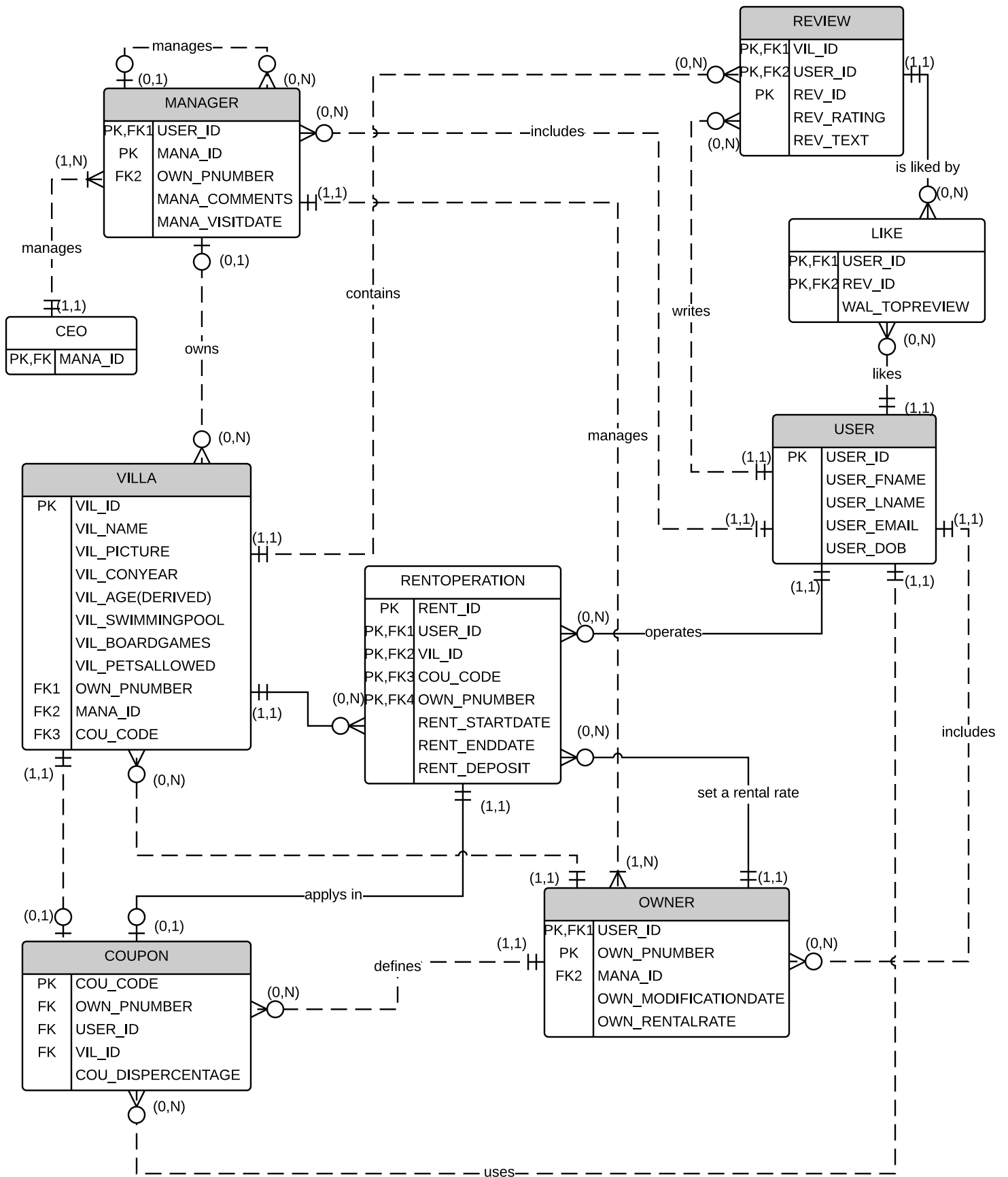


CS 585

HW1-PART1

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ASSUMPTION

1. A user can rent many villas and a villa only can be rented by one user.
2. A user can write many reviews and a review only can be wrote by one user.
3. A review can be liked by many users and a user can like many reviews.
4. A review can only about one villa and a villa can have many reviews.
5. A owner must be a user and not all users are owners.
6. A owner can define many coupons and a coupon only can be defined by one owner.
7. A user can use many coupons and a coupon only can be used by one user.
8. A villa can have one coupon or do not have any coupon. A coupon only can be used in one villa.
9. A manager can manage many owners and a owner can only be managed by one manager.
10. A manager is a user and not all users are managers.
11. A manager can have many villas and not all managers have villas. Some managers do not have any villa.
12. A rent operation can only be operated by one user and one user can operate many rent operations.
13. A rent operation can only related one villa and a villa can be in many rent operations in different time.
14. A rent operation can use at most one coupon and one coupon can only be used in one rent operation.
15. A rent operation includes the villa's lease. The rental rete in one rent operation can only be set by one owner. An owner can set many rental rates in different rent operations.

SUBCLASS

1. OWNER is a subclass of USER.
2. MANAGER is a subclass of USER.
3. CEO is a subclass of MANAGER.