APARTMENT RENTAL LISTINGS

TEAM:

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Business Rules

1. USER can create one or more LISTINGS.
2. A LISTING can be created by only one USER.
3. Every LISTING has its own ID associated with it.
4. LISTINGS may or may not have OFFERS it depends on the USER who created.
5. If a LISTING has any OFFER it generates automatically as LISTING_ID is linked with OFFER_ID.
6. LISTING_STATUS_ID tells us weather the LISTING is available or not when a USER during the time of booking.
7. Booking is made when a USER take over the LEASE.
8. Booking price depends upon the LEASE_PERIOD.
9. USERS are of two types PREMIUM, NORMAL.
10. PREMIUM_CUSTOMERS have advantage to view the offers before the NORMAL_CUSTOMERS.
11. When LISTING is booked then the LISITING_STATUS will be updated.
12. Each OFFER is linked to only that LISTING.
13. PROPERTY_TYPE gives the information about LISTING's structure like number of beds and baths.
14. A CITY can be located in only one STATE.
15. A STATE can have more than one CITY.
16. All the LISTING bookings will be managed by MANAGEMENT.

Security Levels at table level

Table	management_info6210	Poster_info6210	customer_info6210
TAGS	READ/WRITE	READ	READ
SUBSCRIPTIONS	READ/WRITE		READ
STREET	READ/WRITE	READ	READ
STATE	READ/WRITE	READ	READ
QUERY	READ/WRITE	READ/WRITE	READ/WRITE
PROPERTY_TYPE	READ/WRITE	READ	READ
POSTER	READ/WRITE	READ	

OFFER	READ/WRITE	READ/WRITE	READ/WRITE
MANAGEMENT	READ/WRITE		
LISTING_TAGS	READ/WRITE	READ/WRITE	READ
LISTING_STATUS	READ/WRITE	READ/WRITE	READ/WRITE
LISTING	READ/WRITE	READ/WRITE	READ
LEASE_TYPE	READ/WRITE	READ	READ
CUSTOMER_TYPE	READ/WRITE		
CUSTOMER	READ/WRITE		
COMPLAINTS	READ/WRITE		READ/WRITE
CITY	READ/WRITE	READ	READ
AREA	READ/WRITE	READ	READ
ADDRESS	READ/WRITE	READ	READ

Final ER Diagram

AREA

P	* ID	NUMBER (*,0)
	* MIN_AREA	NUMBER (*,0)
	* MAX_AREA	NUMBER (*,0)

AREA_PK (ID)

LEASE_TYPE

P	* ID	NUMBER (*,0)
	LEASE_PERIOD	VARCHAR2 (10 BYTE)
	MAX_COSIGNERS	NUMBER (*,0)

LEASE_TYPE_PK (ID)

TAGS

P	* ID	NUMBER (*,0)
	TAG	VARCHAR2 (50 BYTE)

TAGS_PK (ID)

LISTING_TAGS

F	LISTING_ID	NUMBER (*,0)
F	TAG_ID	NUMBER (*,0)

SYS_C0022159 (LISTING_ID)
SYS_C0022160 (TAG_ID)

QUERY

P	* ID	NUMBER (*,0)
F	LISTING_ID	NUMBER (*,0)
F	CUSTOMER_ID	NUMBER (*,0)
	DATE_ADDED	DATE
	DATE_ANSWERED	DATE
	* QUERY	VARCHAR2 (100 BYTE)
	REPLY	VARCHAR2 (100 BYTE)

QUERY_PK (ID)
SYS_C0022212 (LISTING_ID)
SYS_C0022213 (CUSTOMER_ID)

PROPERTY_TYPE

P	* ID	NUMBER (*,0)
	TYPE	VARCHAR2 (50 BYTE)
	BEDS	NUMBER (*,0)
	BATHS	NUMBER (*,0)

PROPERTY_TYPE_PK (ID)

LISTING

P	* ID	NUMBER (*,0)
	IS_PREMIUM	CHAR (1 BYTE)
	* BANNER	VARCHAR2 (40 BYTE)
	* DESCRIPT	VARCHAR2 (40 BYTE)
F	* ADDRESS_ID	NUMBER (*,0)
	* ZIP_CODE	NUMBER
F	POSTED_BY	NUMBER (*,0)
	RENT	NUMBER (*,0)
	DEPOSIT	NUMBER (*,0)
	BROKERAGE	NUMBER (*,0)
F	AREA_ID	NUMBER (*,0)
	HEAT	CHAR (1 BYTE)
	HOT_WATER	CHAR (1 BYTE)
	LAUNDRY	CHAR (1 BYTE)
	DATE_AVAILABLE	DATE
	LEASE_ID	NUMBER (*,0)
F	PROPERTY_TYPE_ID	NUMBER (*,0)
	DATE_POSTED	DATE
	LISTING_STATUS_ID	NUMBER (*,0)

LISTING_PK (ID)
SYS_C0022183 (ADDRESS_ID)
SYS_C0022184 (POSTED_BY)
SYS_C0022185 (AREA_ID)
SYS_C0022186 (LEASE_ID)
SYS_C0022187 (PROPERTY_TYPE_ID)
SYS_C0022188 (LISTING_STATUS_ID)

OFFER

P	* ID	NUMBER (*,0)
F	* USER_ID	NUMBER (*,0)
F	LISTING_ID	NUMBER (*,0)
	DATE_ADDED	DATE
	RENT	NUMBER (*,0)
	LEASE_PERIOD	VARCHAR2 (50 BYTE)
	MOVE_IN	DATE
	STATUS	CHAR (1 BYTE)
	DATE_ADDRESSED	DATE
	COMMENTS	VARCHAR2 (100 BYTE)

OFFER_PK (ID)
SYS_C0022217 (USER_ID)
SYS_C0022218 (LISTING_ID)

POSTER

P	* ID	NUMBER (*,0)
	* FIRST_NAME	VARCHAR2 (40 BYTE)
	* LAST_NAME	VARCHAR2 (40 BYTE)
	IS_SUBLET	CHAR (1 BYTE)
	IS_OWNER	CHAR (1 BYTE)
	IS_AGENT	CHAR (1 BYTE)
	DATE_JOINED	DATE
	LAST_ACTIVITY	DATE
F	ADDRESS_ID	NUMBER (*,0)
	* ZIP_CODE	NUMBER
	* CONTACT	VARCHAR2 (10 BYTE)
	* EMAIL	VARCHAR2 (100 BYTE)
	* PASSWORD	VARCHAR2 (50 BYTE)

POSTER_PK (ID)
SYS_C0022165 (ADDRESS_ID)

COMPLAINTS

P	* ID	NUMBER (*,0)
	DATE_ADDED	DATE
	DATE_RESOLVED	DATE
F	LISTING_ID	NUMBER (*,0)
	* COMMENTS	VARCHAR2 (100 BYTE)
F	ADDRESSED_BY	NUMBER (*,0)

COMPLAINTS_PK (ID)
SYS_C0022207 (LISTING_ID)
SYS_C0022208 (ADDRESSED_BY)

LISTING_STATUS

P	* ID	NUMBER (*,0)
	IS_AVAILABLE	CHAR (1 BYTE)
	DATE_UPDATED	DATE
F	UPDATED_BY	NUMBER (*,0)

LISTING_STATUS_PK (ID)
SYS_C0022176 (UPDATED_BY)

CITY

P	* ID	NUMBER (*,0)
	* NAME	VARCHAR2 (50 BYTE)
	* STATE_ID	NUMBER (*,0)

CITY_PK (ID)
SYS_C0022149 (STATE_ID)

STREET

P	* ID	NUMBER (*,0)
	* NAME	VARCHAR2 (50 BYTE)
F	CITY_ID	NUMBER (*,0)

STREET_PK (ID)
SYS_C0022152 (CITY_ID)

STATE

P	* ID	NUMBER (*,0)
U	* NAME	VARCHAR2 (50 BYTE)

STATE_PK (ID)
STATE_NAME_UN (NAME)

ADDRESS

P	* ID	NUMBER (*,0)
	DOOR_NO	NUMBER (*,0)
F	STREET_ID	NUMBER (*,0)
F	CITY_ID	NUMBER (*,0)
F	STATE_ID	NUMBER (*,0)

ADDRESS_PK (ID)
SYS_C0022154 (STREET_ID)
SYS_C0022155 (CITY_ID)
SYS_C0022156 (STATE_ID)

MANAGEMENT

P	* ID	NUMBER (*,0)
	FIRST_NAME	VARCHAR2 (10 BYTE)
	LAST_NAME	VARCHAR2 (10 BYTE)
F	ADDRESS_ID	NUMBER (*,0)
	* ZIP_CODE	NUMBER
	PWY	NUMBER (*,0)
	* CONTACT	VARCHAR2 (10 BYTE)
	* PASSWORD	VARCHAR2 (10 BYTE)

MANAGEMENT_PK (ID)
SYS_C0022179 (ADDRESS_ID)

CUSTOMER_TYPE

P	* ID	NUMBER (*,0)
	TYPE	VARCHAR2 (50 BYTE)

CUSTOMER_TYPE_PK (ID)

SUBSCRIPTIONS

P	* SUBSCRIPTION_ID	NUMBER (*,0)
	SUBSCRIPTION_END_DATE	DATE
F	CUSTOMER_ID	NUMBER (*,0)

SUBSCRIPTIONS_PK (SUBSCRIPTION_ID)
SYS_C0022201 (CUSTOMER_ID)

CUSTOMER

P	* ID	NUMBER (*,0)
	FIRST_NAME	VARCHAR2 (40 BYTE)
	LAST_NAME	VARCHAR2 (40 BYTE)
F	ADDRESS_ID	NUMBER (*,0)
	* ZIP_CODE	NUMBER
	* CONTACT	VARCHAR2 (10 BYTE)
	* EMAIL	VARCHAR2 (100 BYTE)
	* PASSWORD	VARCHAR2 (50 BYTE)
F	CUSTOMER_TYPE_ID	NUMBER (*,0)
	* DATE_JOINED	DATE
	LAST_ACTIVITY	DATE

CUSTOMER_PK (ID)
SYS_C0022199 (ADDRESS_ID)
SYS_C0022200 (CUSTOMER_TYPE_ID)