PROJECT PRMS :

-- To Create Users

CREATE USER ADMIN123 IDENTIFIED BY "Admin\_123\_property\_mgnt";

GRANT CREATE USER, DROP USER, EXECUTE ANY TYPE, EXECUTE ANY PROCEDURE, ALTER ANY PROCEDURE, CREATE ANY TABLE, UNLIMITED TABLESPACE, DROP ANY TRIGGER, CREATE ANY PROCEDURE, ALTER ANY INDEX, CREATE ANY INDEX, CREATE TABLE, CREATE SESSION,

DROP ANY TYPE, CREATE ANY TRIGGER, CREATE SEQUENCE, DROP ANY INDEX, SELECT ANY TABLE,

DROP ANY TABLE, CREATE ANY TYPE, ALTER ANY TRIGGER, ALTER ANY SEQUENCE, CREATE ANY SEQUENCE,

UPDATE ANY TABLE, CREATE TRIGGER, DROP ANY PROCEDURE, DROP ANY SEQUENCE, CREATE ANY VIEW,

DELETE ANY TABLE, INSERT ANY TABLE, ALTER ANY TABLE, READ ANY TABLE, DEBUG CONNECT SESSION,

MERGE ANY VIEW, ALTER ANY TYPE, CREATE PROCEDURE, SELECT ANY SEQUENCE, DROP ANY VIEW,

CREATE VIEW to ADMIN123;

CREATE USER MANAGER123 IDENTIFIED BY "Manager\_123\_property\_mgnt";

GRANT CREATE SESSION TO MANAGER123;

GRANT CONNECT TO MANAGER123;

CREATE USER OWNER123 IDENTIFIED BY "Owner\_123\_property\_mgnt";

GRANT CREATE SESSION TO OWNER123;

GRANT CONNECT TO OWNER123;

CREATE USER TENANT123 IDENTIFIED BY "Tenant\_123\_property\_mgnt";

GRANT CONNECT TO TENANT123;

GRANT CREATE SESSION TO TENANT123;

-- To Grant Permissions to Created Users

GRANT SELECT, INSERT, UPDATE, DELETE ON ADMIN123.property TO OWNER123;

GRANT SELECT, INSERT, UPDATE, DELETE ON ADMIN123.OWNER TO OWNER123;

grant select, Insert, update, Delete on admin123.manager to MANAGER123;

grant select, Insert, update, Delete on admin123.unit to MANAGER123;

grant select, Insert, update, Delete on admin123.lease to MANAGER123;

grant select, Insert, update, Delete on admin123.maintenance to MANAGER123;

grant select, Insert, update, Delete on admin123.tenants to MANAGER123;

grant select, Insert, update, Delete on admin123.tenants to TENANT123;

grant Select, Insert (main\_type) on admin123.maintenance to TENANT123;

-- To check if the tables are present in database

SELECT COUNT(\*) FROM USER\_TABLES

WHERE TABLE\_NAME IN ('OWNER', 'TENANTS', 'PROPERTY', 'MANAGER', 'UNIT', 'LEASE', 'MAINTENANCE')

SELECT \* FROM TAB;

--> For Dropping Tables

-- To DROP MANAGER TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'MANAGER';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE MANAGER';

END IF;

END;

/

-- To DROP TENANTS TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'TENANTS';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE TENANTS';

END IF;

END;

/

-- To DROP PROPERTY TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'PROPERTY';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE PROPERTY';

END IF;

END;

/

-- To DROP OWNER TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'OWNER';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE OWNER';

END IF;

END;

/

-- To DROP UNIT TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'UNIT';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE UNIT';

END IF;

END;

/

-- To DROP MAINTENANCE TABLE

set serveroutput on;

declare

tcount number; begin

select count(\*) into tcount

from user\_tables where table\_name = 'MAINTENANCE';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE MAINTENANCE';

END IF;

END;

/

-- To DROP LEASE TABLE

set serveroutput on;

declare

tcount number;

begin

select count(\*) into tcount

from user\_tables where table\_name = 'LEASE';

IF TCOUNT>0

THEN

EXECUTE IMMEDIATE 'DROP TABLE LEASE';

END IF;

END;

/

-- CLEARS THE RECYCLE BIN

PURGE RECYCLEBIN;

-- SHOWS ALL THE TABLES

SELECT \* FROM TAB;

--> To Create Tables

-- Create MANAGER Table

CREATE TABLE MANAGER(

MANAGER\_ID INT NOT NULL PRIMARY KEY,

MANAGER\_NAME VARCHAR(30) NOT NULL,

MANAGER\_CONTACT VARCHAR(20) NOT NULL,

MANAGER\_ADDRESS VARCHAR(50) NOT NULL

);

-- Create TENANTS Table

CREATE TABLE TENANTS(

TENANT\_ID INT PRIMARY KEY,

TENANT\_NAME VARCHAR(30),

TENANT\_ADDRESS VARCHAR(50),

TENANT\_CONTACT VARCHAR(20)

);

-- Create PROPERTY Table

CREATE TABLE PROPERTY(

PROPERTY\_ID INT NOT NULL PRIMARY KEY,

MANAGER\_ID INT NOT NULL,

UNIT\_COUNT INT NOT NULL,

PROPERTY\_OWNER VARCHAR(30) NOT NULL,

PROPERTY\_ADDRESS VARCHAR(50) NOT NULL,

FOREIGN KEY (MANAGER\_ID) REFERENCES MANAGER(MANAGER\_ID)

);

-- Create OWNER Table

CREATE TABLE OWNER(

OWNER\_ID INT NOT NULL PRIMARY KEY,

PROPERTY\_ID INT NOT NULL,

MANAGER\_ID INT NOT NULL,

OWNER\_NAME VARCHAR(30) NOT NULL,

OWNER\_CONTACT VARCHAR(20) NOT NULL,

OWNER\_ADDRESS VARCHAR(50) NOT NULL,

FOREIGN KEY (PROPERTY\_ID) REFERENCES PROPERTY(PROPERTY\_ID),

FOREIGN KEY (MANAGER\_ID) REFERENCES MANAGER(MANAGER\_ID)

);

-- Create UNIT Table

CREATE TABLE UNIT(

UNIT\_ID INT NOT NULL PRIMARY KEY,

TENANT\_ID INT,

OWNER\_ID INT NOT NULL,

MANAGER\_ID INT NOT NULL,

UNIT\_RENT INT NOT NULL,

UNIT\_OWNER VARCHAR(30) NOT NULL,

UNIT\_ADDRESS VARCHAR(50) NOT NULL,

FOREIGN KEY (TENANT\_ID) REFERENCES TENANTS(TENANT\_ID),

FOREIGN KEY (OWNER\_ID) REFERENCES OWNER(OWNER\_ID),

FOREIGN KEY (MANAGER\_ID) REFERENCES MANAGER(MANAGER\_ID)

);

-- Create MAINTENANCE Table

CREATE TABLE MAINTENANCE(

MAIN\_ID INT NOT NULL PRIMARY KEY,

UNIT\_ID INT NOT NULL,

MAIN\_AMOUNT INT NOT NULL,

UNIT\_CONTACT VARCHAR(30) NOT NULL,

MAIN\_START\_DATE DATE NOT NULL,

MAIN\_END\_DATE DATE,

MAIN\_TYPE VARCHAR(30) NOT NULL,

FOREIGN KEY (UNIT\_ID) REFERENCES UNIT(UNIT\_ID)

);

-- Create LEASE Table

CREATE TABLE LEASE(

LEASE\_ID INT NOT NULL PRIMARY KEY,

UNIT\_ID INT NOT NULL,

LEASE\_AMOUNT INT NOT NULL,

OWNER\_NAME VARCHAR(30) NOT NULL,

MANAGER\_CONTACT VARCHAR(20) NOT NULL,

LEASE\_START\_DATE DATE,

LEASE\_END\_DATE DATE,

TENANT\_ID INT,

FOREIGN KEY (UNIT\_ID) REFERENCES UNIT(UNIT\_ID),

FOREIGN KEY (TENANT\_ID) REFERENCES TENANTS(TENANT\_ID)

);

--> To Drop the Tables

DROP TABLE LEASE;

DROP TABLE MAINTENANCE;

DROP TABLE UNIT;

DROP TABLE OWNER;

DROP TABLE PROPERTY;

DROP TABLE TENANTS;

DROP TABLE MANAGER;

-- To Alter any Constraint

-- ALTER TABLE UNIT DROP CONSTRAINT SYS\_C0045943;

--> Insert Statements

-- MANAGER TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”MANAGER”

VALUES(‘201’, ‘JOHN', ‘6177869876’, '81, Juniper Street' );

INSERT INTO "ADMIN123”.”MANAGER”

VALUES(‘202’, ’SAM’, ‘8575679876’, '82, Forest Hill Street');

INSERT INTO "ADMIN123”.”MANAGER”

VALUES(‘203’, ’ADITYA’, ‘6172345678’, '83, Saint Alphnosus');

INSERT INTO "ADMIN123”.”MANAGER”

VALUES(‘204’, ‘LARA', ‘4162345367’, '84, Harvard Street');

INSERT INTO "ADMIN123"."MANAGER"

VALUES(‘205’, ’ROHIT’, ‘8575761846’, '85, Columbia Street');

INSERT INTO "ADMIN123”.”MANAGER”

VALUES(‘206’, ‘JESSI', ‘6847535358', '86, Huntington Ave');

-- TENANTS TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘101’, ‘ABC’ , '41, Juniper Street #1’, ‘5231234561');

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘102’, ‘DEF', '42, Forest Hill Street #1’, ‘5232345672’);

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘103’, ‘GHI’, '43, Saint Alphnosus #1’, ‘5233456783');

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘104', ‘JKL’, '44, Harvard Street #1’, ‘5234567894’);

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘105', ‘MNO’, '45, Columbia Street #1’, ‘5235679005’);

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘106', ‘PQR’, '41, Juniper Street #2’, ‘5236790116’);

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘107’, ‘STU’ , '43, Saint Alphnosus #2’, ‘5237901227');

INSERT INTO "ADMIN123”.”TENANTS”

VALUES(‘108’, ‘VWX’, '43, Saint Alphnosus #3’, ‘5239012338’);

-- PROPERTY TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’51’, ‘201’, ‘2’, ‘ARYA' , '11,Juniper Street');

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’52’, ‘202’, ‘1’, ‘ROHAN', '12, Forest Hill Street');

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’53’, ‘203’, ‘3’, ’NICK', '13, Saint Alphnosus');

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’54’, ‘204’, ‘1’, ‘BROWN', '14, Harvard Street');

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’55', ‘205’, ‘1’, ‘SURYA', '15, Columbia Street’);

INSERT INTO "ADMIN123”.”PROPERTY”

VALUES(’56’, ‘206’, ‘1’, ‘JOHN', '16, Huntington Ave');

-- OWNER TABLE INSERT STATEMENT

INSERT INTO “ADMIN123”.”OWNER”

VALUES(‘1', ’51', ‘201’, ‘ARYA' , ‘7895263890’, '39, Juniper Street');

INSERT INTO "ADMIN123”.”OWNER”

VALUES(‘2’, ’52’, ‘202’, ‘ROHAN', ‘6372934749’, '106, Forest Hill Street');

INSERT INTO "ADMIN123”.”OWNER”

VALUES(‘3’, ’53’, ‘203’, ’NICK’, ‘5647920237’, '75, Saint Alphnosus');

INSERT INTO "ADMIN123”.”OWNER”

VALUES(‘4’, ’54’, ‘204’, ‘BROWN', ‘7896238165’, '54, Harvard Street');

INSERT INTO "ADMIN123”.”OWNER”

VALUES(‘5’, ’55’, ‘205’, ‘SURYA', ‘5602846710’, '36, Columbia Street’);

INSERT INTO "ADMIN123”.”OWNER”

VALUES(‘6’, ’56’, ‘206’, ‘JOHN', ‘5764581467’, '42, Huntington Ave');

-- UNIT TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5101’, ‘101', ‘1', ‘201', ‘2500’ , ‘ARYA' , '11, Juniper Street #1' );

INSERT INTO "ADMIN123”.”UNIT”

VALUES('5201’, ‘102’, ‘2’, ‘202’, ‘3000’, ‘ROHAN' , '12, Forest Hill Street #1');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5301’, ‘103’, ‘3’, ‘203’, ‘3500', ‘NICK' , '13, Saint Alphnosus #1');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5401’, ‘104', ‘4’, ‘204’, ‘4000’, ‘BROWN' , '14, Harvard Street #1');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5501’, ‘105’, ‘5’, ‘205', ‘4500' , ‘SURYA' , '15, Columbia Street #1');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5102’, ‘106’ , ‘1’, ‘201’, ‘2500’ , ’ARYA’ , '11, Juniper Street #2');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5302’, ‘107', ‘3’, ‘203’, ‘3000’ , ‘ROHAN' , '13, Saint Alphnosus #2');

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5303’, ‘108’, ‘3’, ‘203', '3000’ , 'ROHAN' , '13, Saint Alphnosus #3’);

INSERT INTO "ADMIN123”.”UNIT”

VALUES(‘5601', ‘6’, ‘206’, ‘5000’ , 'JOHN' , '42, Huntington Ave #1');

-- MAINTENANCE TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘401', ‘5101’, ‘2500’, ‘6171234561’, ’09/01/2022’ , '09/01/2023' , 'Plumbing');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘402’, ‘5201’, ‘3000’, ‘6171234672’, ’01/01/2022' , ’01/01/2023' , 'Electrician');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘403’, ‘5301’, ‘3500' , ‘6171234783’, ’02/01/2022’ , '02/01/2023' , 'Water Leakages');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘404’, ‘5401’, ‘4000’ , ‘6171234894’, ’03/01/2022' , ’03/01/2023’ , 'Pest Control');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘405’, ‘5501’, ‘4500’ , ‘6171235005’ , ’04/01/2022’ , '04/01/2023' , 'Plumbing');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘406’ , ‘5102’, '2500’ , ‘6171235116’, ’05/01/2022' , ’05/01/2023' , 'Fire alarm');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘407', ‘5302’, ‘3000’ , ‘6171235227', ’06/01/2022' , ’07/09/2022' , 'Painting Rooftop');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘408’, ‘5303’ , ‘3000’ , '6171235338’ , ’07/01/2022’ , '07/10/2023' , 'Gardening');

INSERT INTO "ADMIN123”.”MAINTENANCE”

VALUES(‘409’ , ‘5601’ , ‘3000’ , ‘6171235227’);

-- LEASE TABLE INSERT STATEMENT

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20001’, ‘5101’, ‘7500' , ’ARYA’ , ‘6177869876’ , ’09/01/2022' , ’09/01/2023' , ‘101');

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20002’, ‘5201’, ‘9000’ , ’ROHAN’ , ‘8575679876’ , ’01/01/2022’ , ’01/01/2023' , '102’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20003’, ‘5301’, ‘10500’ , ’NICK’ , ‘6172345678’, ’02/01/2022’ , ’02/01/2023' , '103');

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20004’, ‘5401', ‘12000' , ‘BROWN’, ‘4162345367’, ’03/01/2022' , ’03/01/2023' , '104’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20005', ‘5501’, ‘13500’ , ‘SURYA’ , ‘8575761846’, ’04/01/2022’ , ’04/01/2023' , ‘105’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20006’, ‘5102’, ‘7500’ , ‘ARYA’ , ‘6177869876’ , ’05/01/2022’ , ’05/01/2023' , ‘106’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20007’, ‘5302’, ‘9000’, ‘ROHAN’, ‘6172345678’, ’06/01/2022’ , ’06/01/2023' , ‘107’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20008’, ‘5303’, ‘9000’ , ‘ROHAN’ , ‘6172345678', ’07/01/2022’ , ’07/01/2023' , ‘108’);

INSERT INTO "ADMIN123”.”LEASE”

VALUES(‘20009’, '5601’, ‘15000’ , ‘JOHN’, ‘6847535358', ’07/01/2022’ , '07/01/2023');

-- VIEWS :

-- 1. How many units does owner have?

SELECT O.OWNER\_ID, P.PROPERTY\_ID, P.UNIT\_COUNT AS NO\_OF\_UNITS\_OWNER\_HAS

FROM OWNER O JOIN PROPERTY P ON P.PROPERTY\_ID = O.PROPERTY\_ID;

-- 2. How many units does manager assigned to that particular owner?

SELECT M.MANAGER\_ID, COUNT(U.UNIT\_ID) AS NO\_OF\_UNITS

FROM MANAGER M JOIN UNIT U ON M.MANAGER\_ID = U.MANAGER\_ID

GROUP BY M.MANAGER\_ID;

-- 3. How many managers does one owner have?

SELECT O.OWNER\_ID, COUNT(M.MANAGER\_ID) AS NO\_OF\_MANAGERS

FROM OWNER O JOIN MANAGER M ON O.OWNER\_ID = M.OWNER\_ID

GROUP BY O.OWNER\_ID ORDER BY NO\_OF\_MANAGERS;

-- 4. How many units are vacant?

SELECT \* FROM UNIT WHERE TENANT\_ID IS NULL;

-- 5. How much revenue does owner have own on a single property for the first month, or as a whole by end of the year?

SELECT DISTINCT(O.PROPERTY\_ID), SUM(L.LEASE\_AMOUNT) AS REVENUE\_EARNED\_BY\_OWNER

FROM UNIT U, LEASE L, OWNER O

WHERE U.UNIT\_ID = L.UNIT\_ID AND O.OWNER\_ID = U.OWNER\_ID AND LEASE\_START\_DATE IS NOT NULL

GROUP BY O.PROPERTY\_ID ORDER BY O.PROPERTY\_ID, REVENUE\_EARNED\_BY\_OWNER;

-- 6. How long the tenant lease last for?

SELECT T.TENANT\_ID, L.LEASE\_ID, (L.LEASE\_END\_DATE-L.LEASE\_START\_DATE) AS DURATION\_OF\_LEASE\_DAYS FROM TENANTS T JOIN LEASE L ON L.LEASE\_ID = T.LEASE\_ID;

-- 7. How many maintenance issues reported?

SELECT COUNT(MAIN\_TYPE) FROM MAINTENANCE WHERE MAIN\_TYPE IS NOT NULL;

-- 8. How many maintenance issues RESOLVED?

SELECT MAIN\_TYPE, 'RESOLVED' AS STATUS FROM MAINTENANCE WHERE MAIN\_TYPE IS NOT NULL AND MAIN\_END\_DATE < CURRENT\_DATE;

-- SELECT MAIN\_TYPE, IF((MAIN\_END\_DATE > CURRENT\_DATE), 'RESOLVED') AS STATUS FROM MAINTENANCE WHERE MAIN\_TYPE IS NOT NULL AND MAIN\_END\_DATE > CURRENT\_DATE;