	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
Namer Kallebuyas wardh # ASSIGNME	M-1 * Reg No. 1923 73061
Course Name; DBMS	CourreCode+CSA0593
Real Estate Property Management Design a database for a real astate company	to manage properties, teran
10ases and payments	
Requirements: Made I tables for properties, leases, tenants, paymen	to and maintain requests.
Made tables for properties, leases, tenants forginers write stored procedures to automate leave vaneo	wals contrabile rental income an
	Not have been
write querices to generate reports on occuponcy	rates, monthly ranted income,
and mountainance requests by property.	
amplement triggers to send notifications for laws	se expiration and overdue
payments.	
Conceptual ERD:	
Properties <	Laases
· · · · · · · · · · · · · · · · · · ·	
· one-to-Many	one-to-Many
Mountenance	
Requests	Payments
	of contract of the contract of
· · · · · · · · · · · · · · · · · · ·	San
Tarants	The second of th

PROPERTIES		LEASES
PK request_id		PK paymentid
Pk Property (FK lease-id amount
issue-description		payment date
request_date		payment_status
status		end_dode rental_rate
One-to-Man	/	one-tu-1
MAINTENANCE		DAVMCAITS
requests	,	PAYMENTS
PK requested		pk payment_id
FK property_id <-	/	fk lease-id
Ssue_description		amount payment_date
egust_date		payment_status
		1 200

ione-to-Many

TENANTS

PK tenant_id name contact-info fk property_id

Dotted Lines Key:

- one-to Mony Relationships:
 - properties to Leavel
 - · properties to Maintenance Roquets.
 - Temants to Leavel Looyed to payments.

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Physical ERD:

PROPERTIES

PK proparty_id INT VARCHA P orderess property_type VARCHAR occulpancy status BOOL

One to many

MAINTEN ANCE

REQUESTS

PK raquest_id INT FK Property_ H INF

issur_description text request_date DATE

status VARCHAR

Dreto many

TENAN'S

PK tenantid INT VARCHAR name

contact_info VARCHAR

fk property_id INT

LEASES

PK lease_id INT

FK terant H INT FK property id INT

start date DATE

end_date DATE rentaliate DECIMAL

One to many

PAYMENTS

PK payment_id INT ..

FK leage id INIT

DECIMA L amount

Payment date DATE

payment status VARCHAR

one to many and all it

, r land, ledd gyddyd

Scheme Dosign:

CREATE TABLE properties (

Property-1d INT PRIMARY KEY,

address VARCHAR (255) NOT NULL,

Property_id INT

occupancy_status BOOLEAN DEFAULT FALSE)

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CREATE TABLE TENANTS C tenantlid INT PRIMARY KEY, name varchar (100), contact-into VARCHAR (255), Property_id INT, FOREIGN KEY (Property -id) REFERENCES properties (property -id) CREATE TABLE Leases (lease_id INT PRIMARY KEY, tenant-id INT, Property_id INT, Start_data PATE and_data DATE, rental rate DECTMA L(10,2), FUREIGN KEY Cterant_id) REFERENCES Tenants (tenants_id), FOREIGIN KEY (Property_id) RETERENCES properting (property_id) زر CREATE TABLE Payments (Payment_id INT PROMARY KEY, leage_id INT, amount DECIMAL (10/2), Payment-data DATE, Payment_status varcher (20), FORETAIN KY (loade-14) REFERENCES LOADER (loade-1d)), CREATE TABLE Maintenance Requests (regust_id INT PRIMARY KEY Property_id INT issul_description Text Turning request -data DATE, Status VARCHAR (20), REFERENCES properties (property_id) FOREIGN KEY CPROPERTY_id) NOV 14, 2024, 0: 00

```
Stored Procedures:
Dean Renewal Automation:
  CREATE PROCEDURE REnewlease (IN lease id IMI, IN maw end date DITIE)
   BEGIN
        UPPATE LOCALES
        SET end_date = new_end data
        WHERE leade id = leave_id;
 END;
2) calculate Monthly Rental Income:
 CREATE PROCEDURE Calculate Monthly Income (IN month INT, IN Year ITT); OUT total_income
 BEATN
        schear sum comount)
        IND total_income
       WHERE MONTH (payment data) = month AND YEAR (payment date) = year;
 BNO;
  CREPTIE PROCEDURE process paymond (IN lecule id INT, IN payment amount local map (1012))
 process payments:
   BEOTH
         INSERT INTO Payments Clease id, amound, payment, data, payment-staty)
          YALUES (leade_id i payment_date, completed!);
   ENDi
REPORTS:
1) Occupancy Rate by property
SELECT property_id count (terant_H) as occupied_units
```

SELECT property_id count (terant_b),
From payments
GROUP BY YEAR (payment_date), MONTH
GROUP BY property_td;

2) Monthly Rental Income Raport:	
SELECT MONTH (payment_date) As month, YER (payment_date) As	VGAR, Sum (amound) Aj
FROM Poumen ()	tal Income
OTROUP BY YEAR (payment date), MONTH (payment date)	
ORDER By year, month;	1
3) Maintenance Requists by Beverty;	' 1
SELECT property-id, count Crequest-id) As total-requests FROM maintenance Requests	
Group By property_ind;	
Triggers:	
1. Trigger for Loase Expiration Northication:	and the
CREATE TRIDGER Lease Expiration Notification BETORE UPDATE ON LEASES	ing to see
FOR EACH ROW	
AFGIN	•
IF New end data 4= CURDATE() THEN	
STOINAL SQUSTATE PLY 5000'S ET IMESSAGE_TEST = Les	ago explication?
END;	in out that
2. Trigger for Overdue Payments Notifications:	
CREATE TRIGGER OVER DAYMENT NOTIFICATION	
After Insert on Payments	
FOR EACH ROW	
BEGIN IF NEW payment_Status _ 'Overdue' THEN	
STOWAL SQUSTATE USCOOL SET MESSAGE JEXT = LOVE	due payment
END IF;	ina y i kitiya i iya san
ENO;	