Mini Project Report
on

Insurance Management System using PHP

COMP : A
BATCH : A2

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INDEX

Problem statement:

The aim of this project is to develop a Car Insurance System in the form of a website. The system should manage the information stored in the database and efficiently execute various operations and queries.The system should provide a good user interface.The system should be accessible for both the admin and user .The objective of the DBMS is to streamline the insurance company's operations, making them more efficient and cost-effective.

Introduction:

Insurance is a practice or arrangement by which a company or government agency provides a guarantee of compensation for specified loss, damage, illness, or death in return for payment of a premium.Previously there used to be agents belonging to different companies who would help the people to access the different policies.In today’s times it is very important to have a fully computerized system for management of various important tasks. PHP language will help to develop the backend of the system which includes Database management and it also connects the latter to the frontend. HTML and CSS helps to develop the front end. These languages make the whole insurance process easy and accessible to the user.

Database requirements:

Database consists of the information required for the functioning of the system. The database for our project contains information related to the user,admin,claim,payment and policy. The tables included in the database are as follows:

- Policy Table:
- Admin Table:
- Customer Table:
- Claim Table:
- Payment Table:

Each of the above tables have their respective primary keys which acts as the unique identifier.The primary key is denoted by a golden colored key in the below figures .The foreign key is shown in gray color in the tables. These tables have been generated in the PHPMyadmin service.

1.Admin Table

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	admin_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	adminname	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	ad_password	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	time	date			Yes	current_timestamp()			Change Drop More

2.Policy Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	policy_no	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	admin_id	int(11)			No	None			Change Drop More
3	customer_id	int(11)			No	None			Change Drop More
4	fullname	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
5	amount	text	utf8mb4_general_ci		No	None			Change Drop More
6	veh_no	text	utf8mb4_general_ci		No	None			Change Drop More
7	reg_no	decimal(25,0)			No	None			Change Drop More
8	type	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
9	company	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
10	dop	date			No	None			Change Drop More
11	Start_date	date			No	current_timestamp()			Change Drop More
12	end_date	date			No	current_timestamp()			Change Drop More

3.Customer Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	customer_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	username	text	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	email	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
4	password	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
5	Address	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
6	contact_number	decimal(10,0)			No	None			Change Drop More
7	Birthdate	date			No	None			Change Drop More
8	Gender	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
9	Aadhaar_number	decimal(15,0)			No	None			Change Drop More
10	PAN_number	text	utf8mb4_general_ci		No	None			Change Drop More
11	Occupation	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More

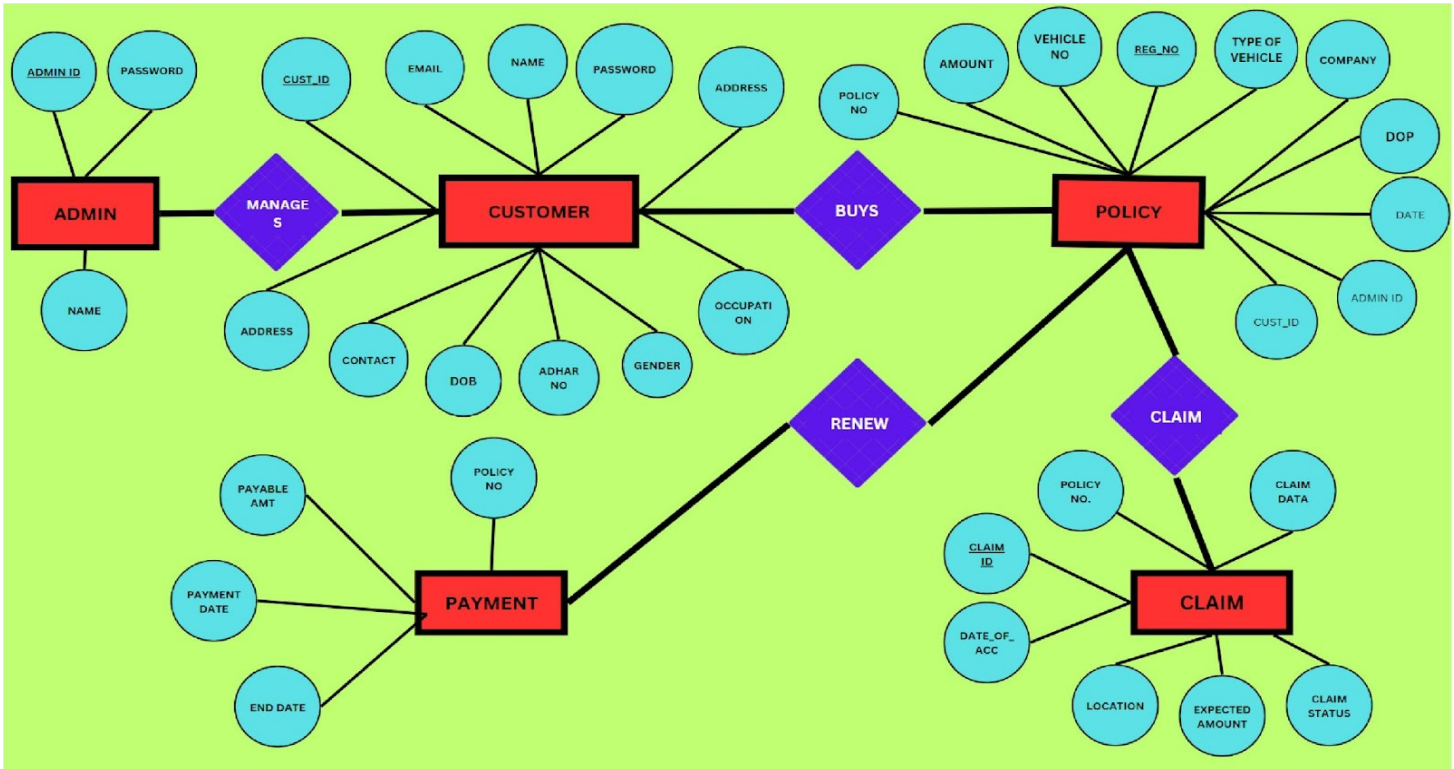
4. Claim Table

	policy_no	Claim_id	Date_of_acc	Location	Expected_amt	claim_Status	claim_date
Edit Copy Delete	73	0	2023-05-02	karvenagar,pune	50000	pending	2023-05-05
Edit Copy Delete	73	4	2023-05-18	karvenagar,pune	200000	pending	2023-05-03
Edit Copy Delete	73	13	2023-05-24	karvenagar,pune	200000	pending	2023-05-05
Edit Copy Delete	73	14	2023-05-11	karvenagar,pune	200000	Approved	2023-05-05
Edit Copy Delete	73	15	2023-05-10	nashik	100000	Disapproved	2023-05-05

4. Payment Table:

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	policy_no	int(11)			No	*None*			Change Drop More
☐	2	amount	int(11)			No	*None*			Change Drop More
☐	3	renew_date	date			No	current_timestamp()			Change Drop More
☐	4	end_date	date			No	current_timestamp()			Change Drop More

Entity Relationship Diagram (ERD):



Normalized Tables:

1 NFA:

Table should not contain any multivalued Attributes

Admin Table,Policy Table,Customer Table does not contain any Multivalued Attributes. Hence It is already in 1NFA.No need to normalize table.

2 NFA:

The table should be in 1NF. All non prime attributes should be fully functionally dependent on the primary key.

Admin Table,Policy Table: As all non prime attributes are Fully Dependent on admin Primary key,Policy Id,Customer Id respectively.

3 NFA:

The table should be in 1NF,2NF and there should not be transitive dependencies in the table.

Admin Table:

Admin_Id	Admin_name	Password
1	Mina	min@123
2	Soha	soha@456

In this table Admin_Id is the Primary key. The table is in 1 NF As there are no multi valued attributes .The table is in 2NF as the Admin_name and Password(non-key columns) are dependent on Admin ID. The table is not in 3NF Password is dependent on Admin_name and Admin_name id dependent on Admin Id

Therefore

Admin_Id	Admin_name
1	Mina
2	Soha

Admin_NAme	Password
Mina	mina@123
Soha	Soha@34343

2.Policy Table

The table is in 1 NF. As there are no multi valued attributesThe Policy table is not in 2NF. In this table Customer ID and Admin Id are Foreign keys. Here Customer having ID 3 has bought the policy for the Policyholders mentioned in the 2nd table.

KEY TABLE

policy_no	admin_id	customer_id
1	1	3
12	1	3
15	2	3
16	2	3
17	2	3

POLICY DETAIL TABLE

customer_id	PolicyHolder Name	amount	veh_no	reg_no	type	company	dop
3	nitya	10000	MH15 2020	12345676543	car	hyundia	2023-04
3	priya	25000	MH20 2021	1234567890	Car	Insia	2023-04
3	anisha	25000	MH20 3456	123456789011	Motor cycle	platina	2023-04
3	prat	25000	MH20 3456	123456789012	Motor cycle	platina	2023-04
3	anisha	25000	MH20 3456	123456789044	Motor cycle	platina	2023-04

3.Customer Table

In the Customer Table Cust_Id is the Primary key. The table is in 1 NF as there are no multi valued attributes . The table is in 2NF as all the attributes(non-key columns) are dependent on Admin ID. The table is not in 3NF Password is dependent on username and username id dependent on Cust_id
Therefore

1.Customer Info

customer_id	username	email	Address	contact_number
3	harshita_khairnar	Khairnarharshita05@g	nashik	999999999
4	newuser	user@gmail.com	Pune	999999999

2.CUST_USER

Username	Password
harshita_khairnar	abs
newuser	af
mina	bv

4.Claim Table

In the Claim Table Claim_Id is the Primary key. The table is in 1 NF as there are no multi valued attributes . The table is in 2NF as all the attributes(non-key columns) are dependent on Claim ID. The table in 3NF as there is no transitive functional dependency

Claim_id	policy_no	Claim data	status	amount	location	Date_Acci

5.Payment Table

The table is in 1 NF as there are no multi valued attributes . The table is in 2NF. The table in 3NF as there is no transitive functional dependency.

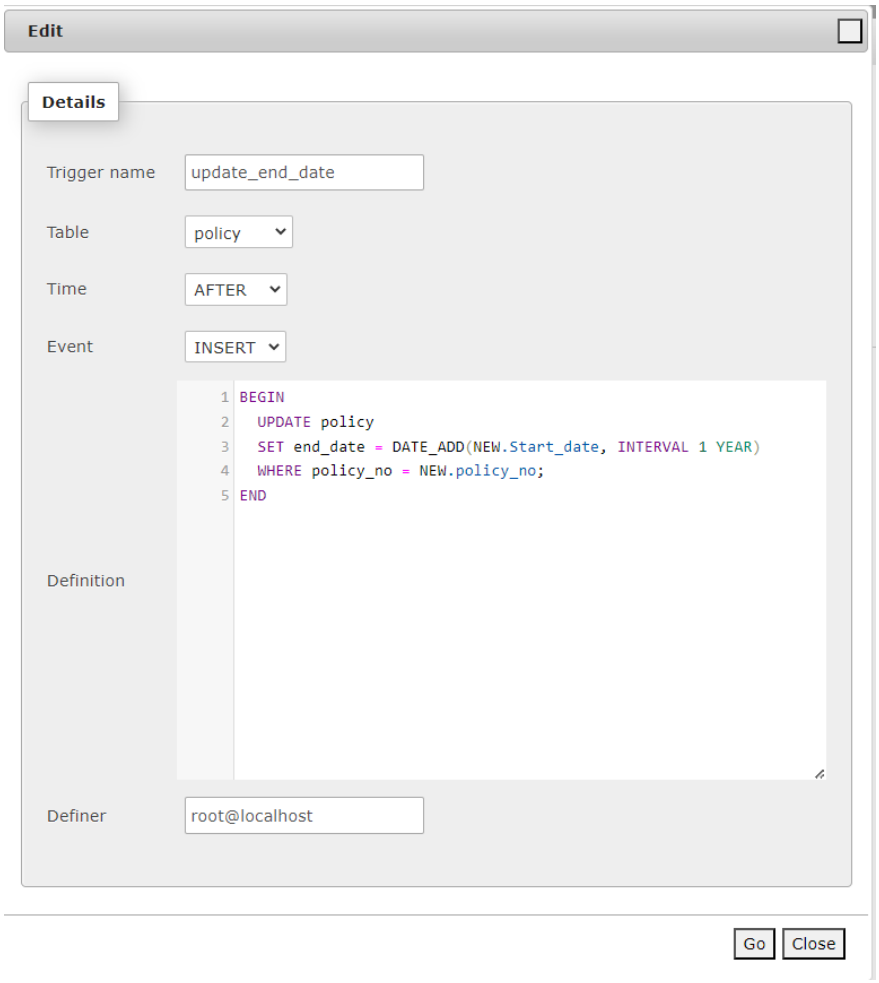
policy_no	Amount	Date	End_Date

Queries:

1. $query = "SELECT * FROM users_1 WHERE customer_id='$cust_id'";
2. $sql = "UPDATE users_1 SET Full_name = '$fullname' WHERE customer_id='$cust_id'";
3. $sql = "UPDATE users_1 SET Address = '$ADD' WHERE customer_id='$cust_id'";
4. $sql = "UPDATE users_1 SET contact_number = '$con_num' WHERE customer_id='$cust_id'";
5. $sql = "UPDATE users_1 SET Birthdate = '$birthdate' WHERE customer_id='$cust_id'";
6. $sql = "UPDATE users_1 SET Occupation = '$occ' WHERE customer_id='$cust_id'";
7. $query = "SELECT * FROM claim";
8. $url = "update_claim.php?claim_no=" . $claim_no;
9. $sql = "SELECT * FROM policy";
10. $query = "SELECT * FROM policy WHERE reg_no='$RegistrationNo'";
11. $query = "SELECT * FROM claim WHERE policy_no='$policy_No'";
12. $query = "SELECT * FROM policy WHERE policy_no='$policy_No'";
13. $sql = "SELECT * FROM users_1";
14. $user_check_query = "SELECT * FROM users_1 WHERE username='$username' OR email='$email' LIMIT 1";
15. $query = "INSERT INTO users_1 (username,Full_name, email, password,Address,contact_number,Birthdate,Gender,Aadhaar_number,PAN_number,Occupation) VALUES('$username', ' $fullname','$email', '$password','$inputAddress2' , '$inputContact' ,'$inputBirthDate','$gender','$aadhaar','$pan','$Occupation')";

16. $user_check_query = "SELECT * FROM admin WHERE adminname='$admin_username' LIMIT 1";
17. $query = "INSERT INTO admin (adminname , ad_password) VALUES('$admin_username', '$admin_password_1')"
18. $query1 = "INSERT INTO policy (admin_id,customer_id,amount,veh_no,reg_no,type,company,dop) VALUES('$admin_id','$customer_id', '$years', '$VehicleNo','$RegistrationNo' , '$TypeOfCar' ,'$companyName','$DOpurches') ",mysqli_query($db, $query1);
19. $query1 = "INSERT INTO claim (policy_no,Date_of_acc,Location,Expected_amt)VALUES('$policy_No','$Acc_date','$Location', '$Exp_amt') ";
20. $sql = "UPDATE claim SET claim_Status = 'Approved' WHERE claim_id = '$claim_no'";
21. $sql = "UPDATE claim SET claim_Status = 'Disapproved' WHERE claim_id = '$claim_no'";
22. $sql = "SELECT * FROM policy WHERE customer_id=(select customer_id from users_1 where username='$username')";
23. "SELECT COUNT(*) FROM policy";
24. $query1 = "SELECT COUNT(*) FROM claim where claim_Status='Approved'";
25. $query1 = "SELECT COUNT(*) FROM users_1" ;

TRIGGER:


Edit
Details
Trigger name
update_end_date
Table
policy
Time
AFTER
Event
INSERT
1 BEGIN
2 UPDATE policy
3 SET end_date = DATE_ADD(NEW.Start_date, INTERVAL 1 YEAR)
4 WHERE policy_no = NEW.policy_no;
5 END
Definition
Definer
root@localhost
Go
Close

Conclusion:

The System Provides the user a working website wherein he can buy a new policy,view the details of the policies he has taken, update details, make payment, renew the policy etc. Along with the user the system is effective and efficient for the admin to use. In future we plan to make the website dynamic and add more features to it.

References:

1. https://licindia.in/
2. https://www.w3schools.com/php/default.asp
3. https://www.youtube.com/watch?v=j1WVRtcauqw&t=2s
4.