Implementation Document

RAHUL PANDITH (PES1UG22CS462)   RAKSHIT GIRISH (PES1UG22CS465)

Code :

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";

SET time_zone = "+00:00";


CREATE TABLE about (

  id INT NOT NULL AUTO_INCREMENT,

  title VARCHAR(100) NOT NULL,

  content LONGTEXT NOT NULL,

  image VARCHAR(300) NOT NULL,

  PRIMARY KEY (id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO about (id, title, content, image) VALUES

(10, 'About Us', '<div id=\"pgc-w5d0dcc3394ac1-0-0\" class=\"panel-grid-cell\">\r\n<div id=\"panel-w5d0dcc3394ac1-0-0-0\" class=\"so-panel widget widget_sow-editor panel-first-child panel-last-child\" data-index=\"0\">\r\n<div class=\"so-widget-sow-editor so-widget-sow-editor-base\">\r\n<div class=\"siteorigin-widget-tinymce textwidget\">\r\n<p class=\"text_all_p_tag_css\">This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project.</p>\r\n<p class=\"text_all_p_tag_css\">This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project. (codeastro.com). This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project.</p>\r\n<div id=\"pgc-
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w5d0dcc3394ac1-0-0\" class=\"panel-grid-cell\">\r\n<div id=\"panel-w5d0dcc3394ac1-0-0-0\" class=\"so-panel widget widget_sow-editor panel-first-child panel-last-child\" data-index=\"0\">\r\n<div class=\"so-widget-sow-editor so-widget-sow-editor-base\">\r\n<div class=\"siteorigin-widget-tinymce textwidget\">\r\n<p class=\"text_all_p_tag_css\">This is a demo about us page for this project. This is a demo about us page for this project. This is a demo about us page for this project.</p>\r\n<p class=\"text_all_p_tag_css\">This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project. (codeastro.com) This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.This is a demo about us page for this project.</p>\r\n</div>\r\n</div>\r\n</div>\r\n</div>\r\n</div>\r\n</div>\r\n</div>\r\n</div>', 'condos-pool.png');

CREATE TABLE admin (

  aid INT NOT NULL AUTO_INCREMENT,

  auser VARCHAR(50) NOT NULL,

  aemail VARCHAR(50) NOT NULL,

  apass VARCHAR(50) NOT NULL,

  adob DATE NOT NULL,

  aphone VARCHAR(15) NOT NULL,

  PRIMARY KEY (aid)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

INSERT INTO admin (aid, auser, aemail, apass, adob, aphone) VALUES

(9, 'admin', 'admin@gmail.com', '6812f136d636e737248d365016f8cfd5139e387c', '2003-09-01', '1470002569');

CREATE TABLE city (

  cid INT NOT NULL AUTO_INCREMENT,

  cname VARCHAR(100) NOT NULL,

```sql
  sid INT NOT NULL,

  PRIMARY KEY (cid)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO city (cid, cname, sid) VALUES

(9, 'Bangalore', 3),

(10, 'Mysore', 2),

(11, 'Tumkur', 2),

(12, 'Mangalore', 7),

(13, 'Mandya', 15);


CREATE TABLE contact (

  cid INT NOT NULL AUTO_INCREMENT,

  name VARCHAR(100) NOT NULL,

  email VARCHAR(100) NOT NULL,

  phone VARCHAR(20) NOT NULL,

  subject VARCHAR(100) NOT NULL,

  message VARCHAR(250) NOT NULL,

  PRIMARY KEY (cid)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO contact (cid, name, email, phone, subject, message) VALUES

(7, 'Rakshit', 'asda@asd.com', '9980850633', 'codeastro.com', 'asdasdasd');


CREATE TABLE feedback (

  fid INT NOT NULL AUTO_INCREMENT,

  uid INT NOT NULL,

  fdescription VARCHAR(300) NOT NULL,
```

```sql
  status INT NOT NULL,

  date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,

  PRIMARY KEY (fid)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO feedback (fid, uid, fdescription, status, date) VALUES

(7, 28, 'This is a demo feedback in order to use set it as Testimonial for the site. Just a simply dummy text rather than using lorem ipsum text lines.', 1, '2022-07-23 16:07:08'),

(8, 33, 'This is great. This is just great. Hmmm, just a dummy text for users feedback.', 1, '2022-07-23 21:51:09');


CREATE TABLE property (

  pid INT NOT NULL AUTO_INCREMENT,

  title VARCHAR(200) NOT NULL,

  type VARCHAR(100) NOT NULL,

  price INT NOT NULL,

  location VARCHAR(200) NOT NULL,

  uid INT NOT NULL,

  PRIMARY KEY (pid),

  FOREIGN KEY (uid) REFERENCES user(uid)  -- Linking to the user table

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO property (pid, title, type, price, location, uid) VALUES

(25, 'Rahuls Home', 'house', 219690, '5th Cross GKW Layout', 30);


CREATE TABLE state (

  sid INT NOT NULL AUTO_INCREMENT,

  sname VARCHAR(100) NOT NULL,
```

```
  PRIMARY KEY (sid)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO state (sid, sname) VALUES

(2, 'Karnataka'),

(3, 'Maharashtra'),

(4, 'Tamil Nadu'),

(7, 'Karnataka'),

(9, 'Karnataka'),

(10, 'Kerala'),

(15, 'Tamil Nadu');


CREATE TABLE user (

  uid INT NOT NULL AUTO_INCREMENT,

  uname VARCHAR(100) NOT NULL,

  uemail VARCHAR(100) NOT NULL,

  uphone VARCHAR(20) NOT NULL,

  upass VARCHAR(50) NOT NULL,

  utype VARCHAR(50) NOT NULL,

  uimage VARCHAR(300) NOT NULL,

  PRIMARY KEY (uid)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO user (uid, uname, uemail, uphone, upass, utype, uimage) VALUES

(28, 'Rakshit Girish', 'rakshit@mail.com', '7777444455',
'6812f136d636e737248d365016f8cfd5139e387c', 'user', 'gr7.png'),

(29, 'Rahul Pandith', 'rahul@mail.com', '7775552214',
'6812f136d636e737248d365016f8cfd5139e387c', 'agent', 'avatarm2-min.jpg'),
```

(30, 'Preetham KH', 'preetham@mail.com', '7896665555',
'6812f136d636e737248d365016f8cfd5139e387c', 'user', 'avatarm7-min.jpg'),

(31, 'Om BK', 'om@mail.com', '7896547855',
'6812f136d636e737248d365016f8cfd5139e387c', 'agent', 'user-default-3-
min.png'),

(32, 'rohit', 'rohit@mail.com', '1458887969',
'6812f136d636e737248d365016f8cfd5139e387c', 'user', 'user-default-3-min.png'),

(33, 'pranav', 'pranav@mail.com', '1458887969',
'6812f136d636e737248d365016f8cfd5139e387c', 'agent', 'user-default-3-
min.png');


```
CREATE TABLE transaction (

  tid INT NOT NULL AUTO_INCREMENT,

  pid INT NOT NULL,

  uid INT NOT NULL,

  amount INT NOT NULL,

  payment_status VARCHAR(20) NOT NULL,

  payment_date DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,

  PRIMARY KEY (tid),

  FOREIGN KEY (pid) REFERENCES property(pid),  -- Linking to the property table

  FOREIGN KEY (uid) REFERENCES user(uid)  -- Linking to the user table
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```


```
INSERT INTO transaction (tid, pid, uid, amount, payment_status, payment_date)
VALUES

(5, 25, 28, 219690, 'completed', '2022-08-25 10:10:10');
```


```
CREATE TABLE wishlist (

  wid INT NOT NULL AUTO_INCREMENT,

  uid INT NOT NULL,
```

```
  pid INT NOT NULL,

  PRIMARY KEY (wid),

  FOREIGN KEY (uid) REFERENCES user(uid),  -- Linking to the user table

  FOREIGN KEY (pid) REFERENCES property(pid)  -- Linking to the property table
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO wishlist (wid, uid, pid) VALUES
(4, 28, 25);


CREATE TABLE view (
  vid INT NOT NULL AUTO_INCREMENT,

  uid INT NOT NULL,

  pid INT NOT NULL,

  PRIMARY KEY (vid),

  FOREIGN KEY (uid) REFERENCES user(uid),  -- Linking to the user table

  FOREIGN KEY (pid) REFERENCES property(pid)  -- Linking to the property table
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


INSERT INTO view (vid, uid, pid) VALUES
(6, 30, 25);
```

Explanation :

1. **About Us Information**

   - Stores content about the website/project including title, description, and image in the `about` table.
   - Contains demo content for the "About Us" page.

2. **Admin User Management**

   ○ Manages admin user data in the `admin` table, including username, email, password, date of birth, and phone.

3. **City and State Data**

   ○ Stores city information (`city` table) and links it to respective states (`state` table).
   ○ Useful for property location management.

4. **Contact Form**

   ○ The `contact` table saves user-submitted contact details like name, email, phone, and messages.
   ○ Helps manage contact requests.

5. **Feedback System**

   ○ The `feedback` table stores user feedback with a description, status, and timestamp.
   ○ Can be used for testimonials or user input on the platform.

6. **Property Listings**

   ○ Manages property details such as title, type, price, and location in the `property` table.
   ○ Linked to the `user` table to associate properties with their respective owners.

7. **User Management**

   ○ The `user` table holds user information, including name, email, phone, password, type (user/agent), and image.
   ○ Differentiates between regular users and agents.

8. **Transactions**

   ○ Manages property purchase transactions in the `transaction` table, including payment status and date.
   ○ Links properties and users for transaction tracking.

9. **Wishlist**

   ○ The `wishlist` table allows users to save properties to their wishlist.
   ○ Stores user ID and property ID to keep track of preferred listings.

10. **Property Views**

    ○ Tracks the viewing history of users for properties in the `view` table.
    ○ Useful for analytics on popular properties.

Key Relationships

- **Foreign Keys**: Tables like `property`, `transaction`, `wishlist`, and `view` are linked via foreign keys to ensure data integrity between users and properties.

This code implements a simple real estate management system, handling users, properties, transactions, feedback, and contact inquiries efficiently.

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