DDL_DML_927_907

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DDL

```
mysql> CREATE DATABASE IF NOT EXISTS pet_adoption_db;
Query OK, 1 row affected (0.01 sec)

mysql> USE pet_adoption_db;
Database changed
mysql>
```

```
mysql> CREATE TABLE User (
    ->     user_id INT AUTO_INCREMENT PRIMARY KEY,
    ->     name VARCHAR(100) NOT NULL,
    ->     email VARCHAR(150) UNIQUE NOT NULL,
    ->     phone VARCHAR(20),
    ->     role ENUM('general', 'adopter', 'shelter_worker', 'admin') DEFAULT 'general',
    ->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    ->     updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Shelter (
    ->     shelter_id INT AUTO_INCREMENT PRIMARY KEY,
    ->     name VARCHAR(100) NOT NULL,
    ->     location VARCHAR(255) NOT NULL,
    ->     contact VARCHAR(100),
    ->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    ->     updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE ShelterWorker (
    ->     worker_id INT AUTO_INCREMENT PRIMARY KEY,
    ->     user_id INT NOT NULL UNIQUE,
    ->     shelter_id INT NOT NULL,
    ->     FOREIGN KEY (user_id) REFERENCES User(user_id) ON DELETE CASCADE,
    ->     FOREIGN KEY (shelter_id) REFERENCES Shelter(shelter_id) ON DELETE CASCADE,
    ->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE PetType (
    ->     type_id INT AUTO_INCREMENT PRIMARY KEY,
    ->     species VARCHAR(50) NOT NULL,
    ->     breed VARCHAR(50),
    ->     life_span INT CHECK (life_span >= 0),
    ->     size ENUM('Small', 'Medium', 'Large', 'Giant'),
    ->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CREATE TABLE Review (
    ->      rev_id INT AUTO_INCREMENT PRIMARY KEY,
    ->      created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    ->      rating INT CHECK (rating BETWEEN 1 AND 5),
    ->      comment TEXT,
    ->      reviewer_id INT NOT NULL,
    ->      shelter_id INT,
    ->      pet_id INT,
    ->      FOREIGN KEY (reviewer_id) REFERENCES User(user_id) ON DELETE CASCADE,
    ->      FOREIGN KEY (shelter_id) REFERENCES Shelter(shelter_id) ON DELETE CASCADE,
    ->      FOREIGN KEY (pet_id) REFERENCES Pet(pet_id) ON DELETE SET NULL
[   -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE VIEW AvailablePets AS
    -> SELECT
    ->      p.pet_id, p.name, pt.species, pt.breed,
    ->      s.name AS shelter_name, p.status
    -> FROM Pet p
    -> JOIN PetType pt ON p.type_id = pt.type_id
    -> JOIN Shelter s ON p.shelter_id = s.shelter_id
[   -> WHERE p.status = 'Available';
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE VIEW AdoptionSummary AS
    -> SELECT
    ->      a.adopt_app_id,
    ->      u.name AS adopter_name,
    ->      p.name AS pet_name,
    ->      a.status AS application_status,
    ->      s.name AS shelter_name,
    ->      a.date
    -> FROM AdoptionApplication a
    -> JOIN User u ON a.user_id = u.user_id
    -> JOIN Pet p ON a.pet_id = p.pet_id
[   -> JOIN Shelter s ON p.shelter_id = s.shelter_id;
Query OK, 0 rows affected (0.01 sec)
```

```
[mysql> SHOW TABLES;
+---------------------------+
| Tables_in_pet_adoption_db |
+---------------------------+
| AdoptionApplication       |
| adoptionsummary           |
| availablepets             |
| Payment                   |
| Pet                       |
| PetType                   |
| Review                    |
| Shelter                   |
| ShelterWorker             |
| User                      |
+---------------------------+
10 rows in set (0.00 sec)
```

DML

```
mysql> INSERT INTO User (name, email, phone, role) VALUES
    -> ('Shakirth Anisha', 'anisha@petsystem.com', '9876543210', 'admin'),
    -> ('Samridhi Shreya', 'samridhi@petsystem.com', '9876501234', 'shelter_worker'),
    -> ('Angad Bhalla', 'angad@petsystem.com', '9876003210', 'adopter'),
    -> ('Suchitra Shankar', 'suchitra@petsystem.com', '9876123456', 'adopter'),
    -> ('Tejas R', 'tejas@petsystem.com', '9988776655', 'shelter_worker'),
    -> ('Sanjana Saxena', 'sanjana@petsystem.com', '9123456789', 'general'),
    -> ('Risu Kumari', 'risu@petsystem.com', '9765432109', 'adopter'),
    -> ('Taylor Swift', 'taylor@petsystem.com', '9000011122', 'adopter'),
    -> ('Harry Styles', 'harry@petsystem.com', '7086011282', 'adopter'),
    -> ('Emma Stone', 'emma@petsystem.com', '7086921122', 'shelter_worker'),
    -> ('John Wick', 'john@petsystem.com', '8012346772', 'shelter_worker');
Query OK, 11 rows affected (0.00 sec)
Records: 11  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO Shelter (name, location, contact)
    -> VALUES
    -> ('PES EC Campus, Bangalore', 'Electronic City, Bangalore', 'pesec@petshelter.org'),
    -> ('Paws Shelter', 'Electronic City, Bangalore', 'paws@petshelter.org'),
    -> ('Happy Tails Home', 'Chennai, India', 'contact@happytails.in'),
    -> ('Pawfect Care Foundation', 'Bangalore', 'contact@pawfectcare.in'),
    -> ('Animal Ark Trust', 'Hyderabad', 'support@animalarktrust.org'),
    -> ('StreetPaws Rehabilitation', 'Delhi', 'help@streetpaws.org');
Query OK, 6 rows affected (0.00 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> INSERT INTO ShelterWorker (user_id, shelter_id)
    -> VALUES
    -> (1, 5),
    -> (2, 2),
    -> (5, 1),
    -> (10, 3),
    -> (11, 4);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> INSERT INTO PetType (species, breed, life_span, size)
    -> VALUES
    -> ('Dog', 'Labrador Retriever', 12, 'Large'),
    -> ('Dog', 'Beagle', 14, 'Medium'),
    -> ('Cat', 'Persian', 15, 'Small'),
    -> ('Parrot', 'African Grey', 50, 'Small'),
    -> ('Rabbit', 'Holland Lop', 10, 'Small'),
    -> ('Dog', 'German Shepherd', 10, 'Large'),
    -> ('Cat', 'Calico', 14, 'Small');
Query OK, 7 rows affected (0.01 sec)
Records: 7  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Pet (name, gender, age, reason, status, shelter_id, type_id)
    -> VALUES
    -> ('Yuki', 'M', 3, 'Owner relocation', 'Available', 1, 1),
    -> ('Milo', 'M', 2, 'Found stray', 'Pending', 2, 6),
    -> ('Luna', 'F', 1, 'Abandoned kitten', 'Available', 1, 7),
    -> ('Snowball', 'F', 4, 'Health issues', 'Medical Hold', 3, 5),
    -> ('Zoomie', 'F', 2, 'Rescued stray cat', 'Available', 2, 3),
    -> ('Coco', 'M', 1, 'Owner could not care for it', 'Available', 3, 4);
Query OK, 6 rows affected (0.00 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

```
mysql> -- ADOPTION APPLICATIONS
Query OK, 0 rows affected (0.00 sec)

mysql> INSERT INTO AdoptionApplication (status, reason, approved_by, pet_id, user_id)
    -> VALUES
    -> ('Pending', 'Want to adopt a cat for my family', NULL, 5, 4), -- Suchitra applying for Zoomie
    -> ('Approved', 'Looking for a friendly dog', 1, 1, 3), -- Angad approved for Yuki
    -> ('Denied', 'Not enough space at home', NULL, 2, 7), -- Risu denied for Milo
    -> ('Pending', 'Want a small pet for my apartment', NULL, 3, 8), -- Taylor applying for Luna
    -> ('Approved', 'Need a companinion', 2, 2, 9); -- Harry applying for Milo
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
mysql> -- PAYMENTS
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> INSERT INTO Payment (method, amount, status, user_id, adoption_app_id)
    -> VALUES
    -> ('Credit Card', 1500.00, 'Completed', 3, 2),   -- Angad pays for adopting Yuki
    -> ('UPI', 200.00, 'Pending', 4, 1),              -- Suchitra's payment is pending for Zoomie
    -> ('PayPal', 800.00, 'Completed', 8, 3),         -- Taylor's payment completed for Coco
    -> ('Debit Card', 950.00, 'Failed', 9, 5),        -- Taylor's payment completed for Coco
    -> ('Credit Card', 950.00, 'Completed', 9, 5);       -- Taylor's payment completed for Coco
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
mysql> UPDATE Pet
    -> SET gender = 'M'
    -> WHERE name = 'Zoomie';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
mysql> DELETE FROM PetType WHERE type_id = 2;
Query OK, 1 row affected (0.01 sec)

mysql> DELETE FROM Payment WHERE status = 'Failed';
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT
    ->     p.pet_id,
    ->     p.name AS Pet_Name,
    ->     pt.species AS Species,
    ->     pt.breed AS Breed,
    ->     p.age AS Age,
    ->     p.gender AS Gender,
    ->     p.status AS Status,
    ->     s.name AS Shelter_Name
    -> FROM Pet p
    -> JOIN PetType pt ON p.type_id = pt.type_id
    -> JOIN Shelter s ON p.shelter_id = s.shelter_id
    -> ORDER BY pt.species, p.name;
+--------+----------+---------+--------------------+------+--------+-------------+--------------------------+
| pet_id | Pet_Name | Species | Breed              | Age  | Gender | Status      | Shelter_Name             |
+--------+----------+---------+--------------------+------+--------+-------------+--------------------------+
|      3 | Luna     | Cat     | Calico             |    1 | F      | Available   | PES EC Campus, Bangalore |
|      5 | Zoomie   | Cat     | Persian            |    2 | M      | Available   | Paws Shelter             |
|      2 | Milo     | Dog     | German Shepherd    |    2 | M      | Pending     | Paws Shelter             |
|      1 | Yuki     | Dog     | Labrador Retriever |    3 | M      | Available   | PES EC Campus, Bangalore |
|      6 | Coco     | Parrot  | African Grey       |    1 | M      | Available   | Happy Tails Home         |
|      4 | Snowball | Rabbit  | Holland Lop        |    4 | F      | Medical Hold | Happy Tails Home        |
+--------+----------+---------+--------------------+------+--------+-------------+--------------------------+
6 rows in set (0.00 sec)

mysql>
mysql> SELECT
    ->     u.user_id,
    ->     u.name AS User_Name,
    ->     u.email AS Email,
    ->     p.method AS Payment_Method,
    ->     p.amount AS Amount,
    ->     p.status AS Payment_Status,
    ->     p.date AS Payment_Date
    -> FROM Payment p
    -> JOIN User u ON p.user_id = u.user_id
    -> ORDER BY p.date DESC;
+---------+-----------------+-----------------------+----------------+---------+----------------+---------------------+
| user_id | User_Name       | Email                 | Payment_Method | Amount  | Payment_Status | Payment_Date        |
+---------+-----------------+-----------------------+----------------+---------+----------------+---------------------+
|       3 | Angad Bhalla    | angad@petsystem.com   | Credit Card    | 1500.00 | Completed      | 2025-10-30 09:41:33 |
|       4 | Suchitra Shankar | suchitra@petsystem.com | UPI           |  200.00 | Pending        | 2025-10-30 09:41:33 |
|       8 | Taylor Swift    | taylor@petsystem.com  | PayPal         |  800.00 | Completed      | 2025-10-30 09:41:33 |
|       9 | Harry Styles    | harry@petsystem.com   | Credit Card    |  950.00 | Completed      | 2025-10-30 09:41:33 |
+---------+-----------------+-----------------------+----------------+---------+----------------+---------------------+
4 rows in set (0.00 sec)
```