Acid Properties:

ACID is the abbreviation of atomicity, consistency, isolation and durability. Together all these properties ensure that set of database operations done by users (grouped together in a transaction) leave the database in a valid state even in the evet of unexpected errors.

```
-- Begin the transaction
BEGIN TRANSACTION;
-- Deduct 5 units of product with ID 123 from inventory
UPDATE Products
SET Quantity = Quantity - 5
WHERE ProductID = 123;
-- Check if the updated quantity is valid (greater than or equal to 0)
SELECT Quantity FROM Products WHERE ProductID = 123;
-- If the quantity is negative, rollback the transaction
IF (SELECT Quantity FROM Products WHERE ProductID = 123) < 0
BEGIN
  PRINT 'Rolling back transaction';
  ROLLBACK;
END
ELSE
BEGIN
  -- If the quantity is valid, commit the transaction
  PRINT 'Committing transaction';
  COMMIT;
END
```

Creating two tables Products and logs and inserting values in them

```
-- Create Products table
CREATE TABLE Products (
  ProductID INT PRIMARY KEY,
  Quantity INT
);
-- Insert sample data into Products table
INSERT INTO Products (ProductID, Quantity)
VALUES (1, 10); -- Product with ID 1 and initial quantity 10
-- Create Logs table
CREATE TABLE Logs (
  LOGID INT PRIMARY KEY,
  ProductID INT,
  OldQuantity INT,
  NewQuantity INT,
  TransactionID VARCHAR(10)
);
```

Now, let's simulate the transactions T1 and T2 under different isolation levels:

```
-- Set isolation level to READ COMMITTED for Transaction T1

SET TRANSACTION ISOLATION LEVEL READ COMMITTED;
-- Transaction T1: Update the quantity of ProductID = 1

BEGIN TRANSACTION;

UPDATE Products SET Quantity = Quantity - 5 WHERE ProductID = 1;

INSERT INTO Logs (ProductID, OldQuantity, NewQuantity, TransactionID)

VALUES (1, (SELECT Quantity + 5 FROM Products WHERE ProductID = 1), (SELECT Quantity FROM Products WHERE ProductID = 1), 'T1');
```

COMMIT;

-- Set isolation level to REPEATABLE READ for Transaction T2

SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

-- Transaction T2: Update the quantity of ProductID = 1

BEGIN TRANSACTION;

UPDATE Products SET Quantity = Quantity - 3 WHERE ProductID = 1;

INSERT INTO Logs (ProductID, OldQuantity, NewQuantity, TransactionID)

VALUES (1, (SELECT Quantity + 3 FROM Products WHERE ProductID = 1), (SELECT Quantity FROM Products WHERE ProductID = 1), 'T2');

COMMIT;