day 91

SQL - Transactions

* A transaction is unique of work that
is performed against a database. Transaction
are units or sequences of work accomplished
in a logical order. Whether in a manual
fashion by a user of automatically by
some sort of database program.

* A transaction is the propagation of one
or more Changes to the database.

Properties of transactions:

* Atomicity - ensure that all operations
within the work untill are Completed
Successfully. Otherwise the transaction is
aborted at the point of failure and
all the previous operations are rolled
back to their former state.

* <u>Consistency</u> - ensure that the database properly changes stages upon a successfully commited transaction.

* <u>Isolation</u> - enable transactions to operate independly ot . and transperent to each other

* <u>Durability</u> - ensure that the result or effect of a Committed transaction persists in case of a system failure.

<u>Transaction Control</u>

* COMMIT - to save the Changes

* ROLLBACK - to roll back the Changes

* SAVEPOINT - Creates points within the Group of transactions in which to ROLLBA

* SET TRANSACTION - places a name on transaction.