PL/SQL Transactions

A database transaction is an atomic unit of work that may consists of one or more related SEL statements. It is called atomic because the databases modefications brought about by the SQL statement that constitute a transaction can collectively be either committed, i.e. made permanent to the database or ralled backs (undone) from the database.

A successfully executed San Statement & a committed transaction are not same. Even if an san statement is executed successfully unless the transaction Containing the statement is committed, it can be volled back, and all changes made by the statement (S) can be undone.

Starting and Ending a transaction

A transaction has a beginning and an end. A transactions start when one of the yollowing event take place.

event take place.

=) The first SQL Statement is performed after

the database 3 At each new Sal Statement Issued offer a transaction is completed A transaction ends when one of the Jollowhy event take place. 3 of COMMIT on a ROLLBACK Statement is Issued > A DDL Statement, Such as CREATE stable Statement is Issued; because in that case a Commer is automatically performed 3 A DCL Statement, Such as a GRANT Statement is Issued; because in that case a Commet is automatically performed => SEL \* PLUS tourninates abromally a ROLIBACK is automatically performed. =) A DML Statement fails; in that se case a ROLLBACK is automatically performed you undoing that DML Statement. Committing a transaction of transactions is made permanent by Assuring The SQL Command ComMIT. The general Syntax for the Commer Command

Rolling Back transactions changes made to the database without GOMMIT could be undone using the ROLLBACK. Command is -The general Syntax you the ROLLBACK Command is ROLLBACKO [TO SAVEPOINT < Savepoint-name >]; when a transactions is abouted due to some unpredictions situations, like system failures, In entire transaction since a commit is automatically rolled back, If you are not using Savepoint, Inen surly use the following Statement to Hollback all the changes -KOLLBACKO; Savepoints Saveforinte are sout of markers that help in splitting a long Fransaction iento smaller unit by setting some checkpoints. By setting sowing Savepoints within a long transaction, you can is done by cosury the SAVEPOINT Command

The general syntax for the SAVEPOINT Command

[SAVEPOINT < Savepoint - name >; Spreedy

21/04/20

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