Merge

Test Table
The following examples use the table defined below.

```
CREATE TABLE test1 AS SELECT * FROM all_objects WHERE 1=2;
```

Optional Clauses
The **MATCHED** and **NOT MATCHED** clauses are now optional making all of the following examples valid.

---
**Both clauses present.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN MATCHED THEN UPDATE SET a.status = b.status
  WHEN NOT MATCHED THEN INSERT (object_id, status) VALUES (b.object_id, b.status);
```
---
**No matched clause, insert only.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN NOT MATCHED THEN INSERT (object_id, status) VALUES (b.object_id, b.status);
```
---
**No not-matched clause, update only.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN MATCHED THEN UPDATE SET a.status = b.status;
```

Conditional Operations
Conditional inserts and updates are now possible by using a WHERE clause on these statements.

---
**Both clauses present.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN MATCHED THEN UPDATE SET a.status = b.status WHERE  b.status != 'VALID'
  WHEN NOT MATCHED THEN INSERT (object_id, status) VALUES (b.object_id, b.status) WHERE  b.status != 'VALID';
```
---
**No matched clause, insert only.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN NOT MATCHED THEN INSERT (object_id, status) VALUES (b.object_id, b.status) WHERE  b.status != 'VALID';
```
---
**No not-matched clause, update only.**
```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN MATCHED THEN UPDATE SET a.status = b.status WHERE  b.status != 'VALID';
```

DELETE Clause
An optional DELETE WHERE clause can be used to clean up after a merge operation. Only those rows which match both the ON clause and the DELETE WHERE clause are deleted.

```
MERGE INTO test1 a USING all_objects b ON (a.object_id = b.object_id)
  WHEN MATCHED THEN UPDATE SET a.status = b.status WHERE  b.status != 'VALID'
  DELETE WHERE (b.status = 'VALID');
```