

APPENDIX 17.A: SQL:2016 SYNTAX SUMMARY

This appendix summarizes the SQL:2016 syntax for the constraint timing clause, the SET CONSTRAINTS statement, the SET TRANSACTION statement, and the save point statements discussed in the chapter. The conventions used in the syntax notation are identical to those used at the end of Chapter 3.

Constraint Timing Clause

```
CREATE TABLE TableName
( <Column-Definition>* [ , <Table-Constraint>* ] )

<Column-Definition>: ColumnName DataType
[ DEFAULT { DefaultValue | USER | NULL } ]
[ <Column-Constraint> ]

<Column-Constraint>: [ CONSTRAINT ConstraintName ]
{ NOT NULL |
  <Foreign-Key-Constraint> | -- defined in Chapter 3
  <Uniqueness-Constraint> | -- defined in Chapter 3
  <Check-Constraint> } -- defined in Chapter 16
[ <Timing-Clause> ]

<Table-Constraint>: [ CONSTRAINT ConstraintName ]
{ <Primary-Key-Constraint> | -- defined in Chapter 3
  <Foreign-Key-Constraint> | -- defined in Chapter 3
  <Uniqueness-Constraint> | -- defined in Chapter 3
  <Check-Constraint> } -- defined in Chapter 16
[ <Timing-Clause> ]

<Timing-Clause>:
{ NOT DEFERRABLE |
  DEFERRABLE { INITIALLY IMMEDIATE |
               INITIALLY DEFERRED } }

CREATE ASSERTION AssertionName
CHECK ( <Group-Condition> ) [ <Timing-Clause> ]

<Group-Condition>: -- defined in Chapter 4
```

SET CONSTRAINTS Statement

```
SET CONSTRAINTS { ALL | ConstraintName* }
{ IMMEDIATE | DEFERRED }
```

SET TRANSACTION Statement

```
SET [LOCAL] TRANSACTION <Mode>*

<Mode>: { <Isolation-Level> | <Access-Mode> |
          <Diagnostics> }

<Isolation-Level>: ISOLATION LEVEL
{ SERIALIZABLE |
  REPEATABLE READ |
  READ COMMITTED |
  READ UNCOMMITTED }
```

```
<Access-Mode>: { READ WRITE | READ ONLY }
```

```
<Diagnostics>: DIAGNOSTICS SIZE Constant
```

Save Point Statements

```
SAVEPOINT <SavePointName> -- creates a save point
```

```
RELEASE <SavePointName> -- deletes a save point
```

```
ROLLBACK TO SAVEPOINT <SavePointName> -- rollback to a save point
```