

**Table 2 — Data Type Codes**

|     |                    |
|-----|--------------------|
| DT  | Data Type          |
| P   | ST_Point           |
| C   | ST_Curve           |
| LS  | ST_LineString      |
| CS  | ST_CircularString  |
| CC  | ST_CompoundCurve   |
| S   | ST_Surface         |
| CP  | ST_CurvePolygon    |
| PY  | ST_Polygon         |
| GC  | ST_GeomCollection  |
| MP  | ST_MultiPoint      |
| MC  | ST_MultiCurve      |
| MLS | ST_MultiLineString |
| MS  | ST_MultiSurface    |
| MPY | ST_MultiPolygon    |

**Table 3 — Cast Codes**

| Cast Code | Description   |
|-----------|---|
| Y         | The cast from the source type to the target type is supported   |
| E         | If the value is an empty set, then the cast from the source type to the target type is supported.   |
| 1-DT      | If the value is an empty set or the value contains 1 element of type <i>DT</i> , then the cast from the source type to the target type is supported. The <i>DT</i> codes are defined in Table 2 — Data Type Codes.          |
| n-DT      | If the value is an empty set or the value contains 1 or more elements of type <i>DT</i> , then the cast from the source type to the target type is supported. The <i>DT</i> codes are defined in Table 2 — Data Type Codes. |

**Table 4 — Supported Casts**

| CAST(SV AS TDT) |     |     |      |      |     |     |    |     |     |     |     |     |
|-----------------|-----|-----|------|------|-----|-----|----|-----|-----|-----|-----|-----|
| TDT \ SDT       | P   | LS  | CS   | CC   | CP  | PY  | GC | MP  | MC  | MLS | MS  | MPY |
| P               | Y   | E   | E    | E    | E   | E   | Y  | Y   | E   | E   | E   | E   |
| LS              | E   | Y   | E    | Y    | E   | E   | Y  | E   | Y   | Y   | E   | E   |
| CS              | E   | Y   | Y    | Y    | E   | E   | Y  | E   | Y   | Y   | E   | E   |
| CC              | E   | 1-C | E    | 1-CS | E   | E   | Y  | E   | Y   | Y   | E   | E   |
| CP              | E   | E   | E    | E    | Y   | Y   | Y  | E   | E   | E   | Y   | Y   |
| PY              | E   | E   | E    | E    | Y   | Y   | Y  | E   | E   | E   | Y   | Y   |
| GC              | 1-P | 1-C | 1-CS | 1-C  | 1-S | 1-S | Y  | n-P | n-C | n-C | n-S | n-S |
| MP              | 1-P | E   | E    | E    | E   | E   | Y  | Y   | E   | E   | E   | E   |
| MC              | E   | 1-C | 1-CS | 1C   | E   | E   | Y  | E   | Y   | Y   | E   | E   |
| MLS             | E   | 1-C | 1-C  | 1-C  | E   | E   | Y  | E   | Y   | Y   | E   | E   |
| MS              | E   | E   | E    | E    | 1S  | 1S  | Y  | E   | E   | E   | Y   | Y   |
| MPY             | E   | E   | E    | E    | 1S  | 1S  | Y  | E   | E   | E   | Y   | Y   |