

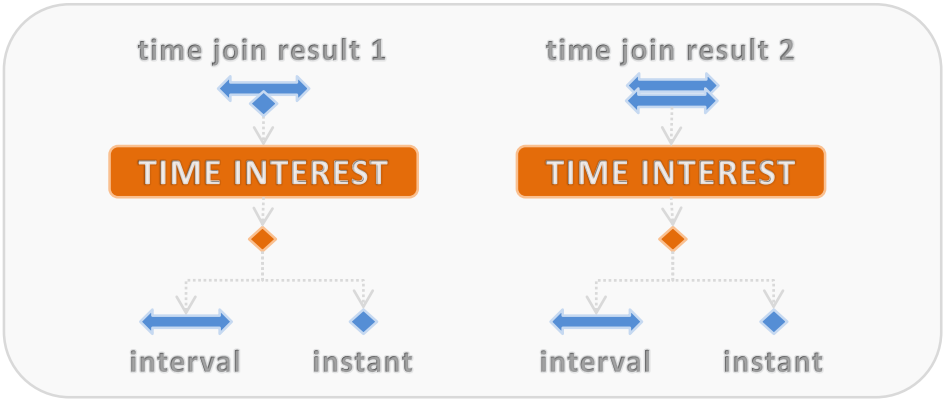
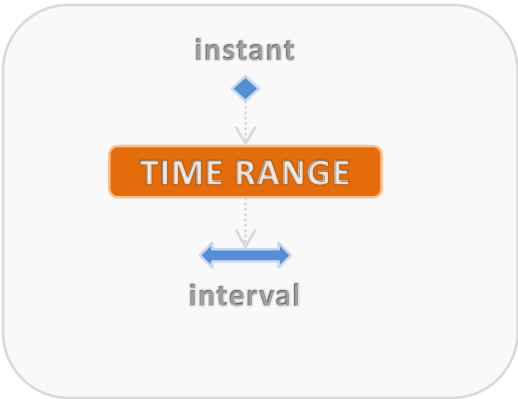
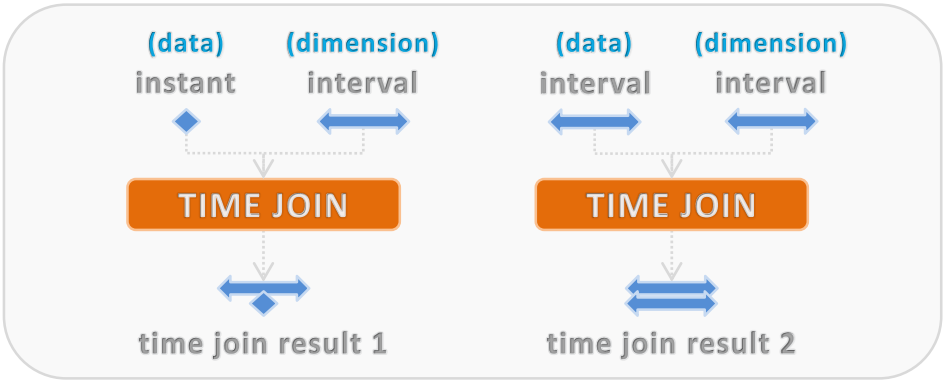
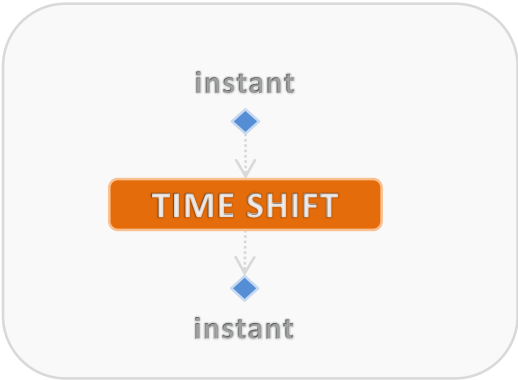
DECISION INSIGHT

Time Operators

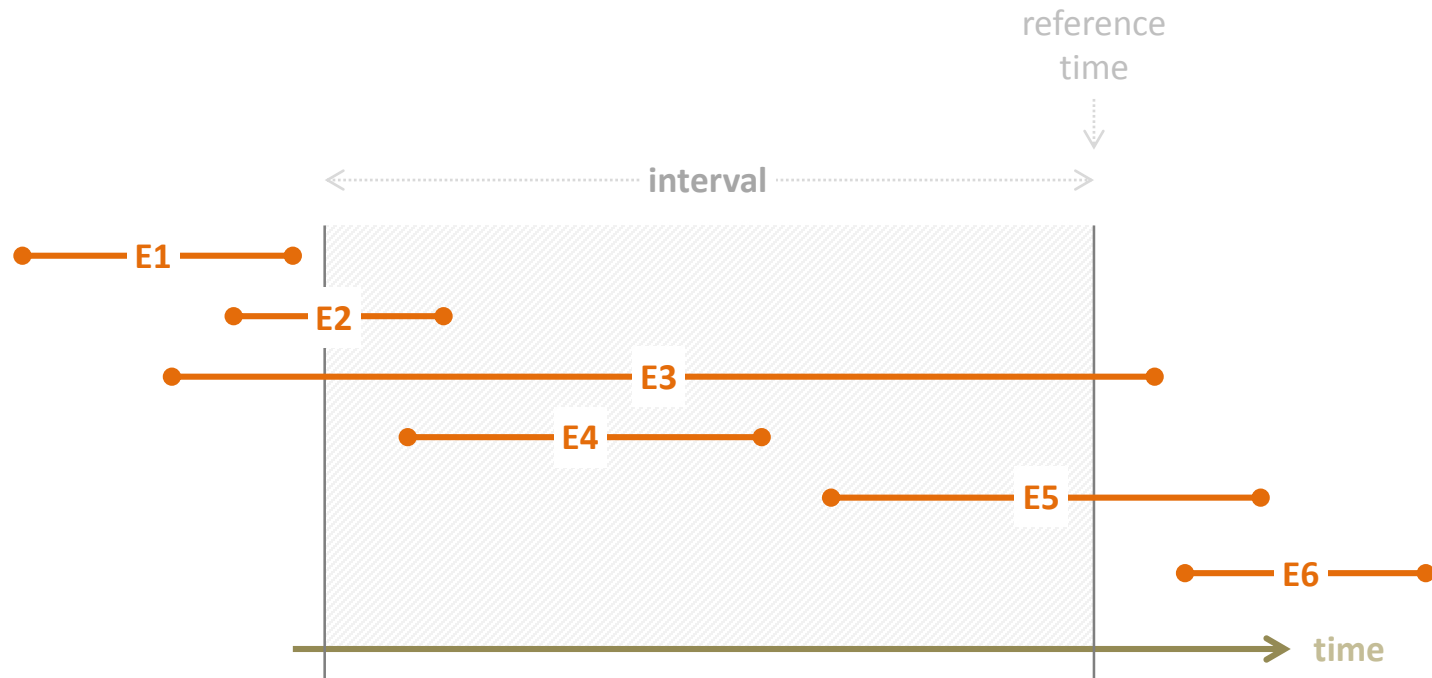
Time operators

1. TIME MODEL

Time operators



Time operators



Time operators

2. TIME JOINS

Time operators

TIME JOIN

- INTERSECT

- BEGIN DURING

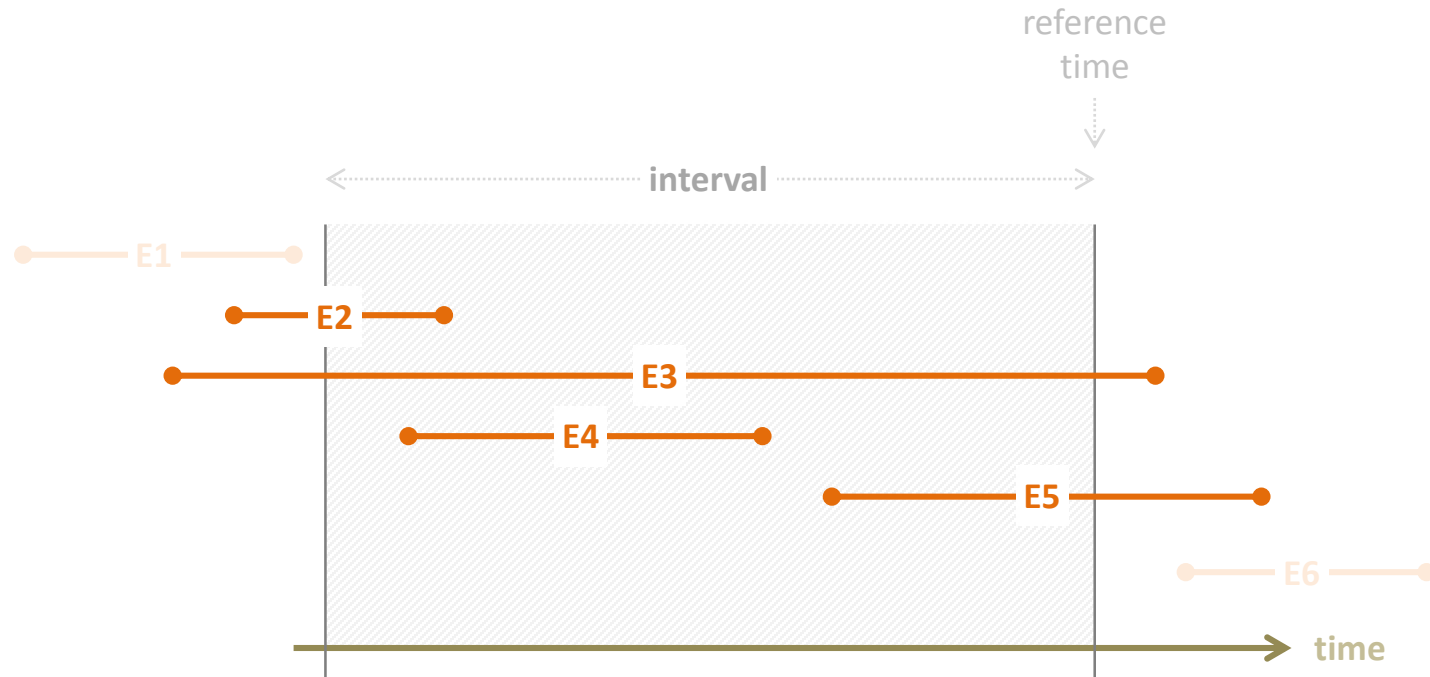
- END DURING

- CURRENT AT BEGIN

- CURRENT AT END

- INCLUDED IN

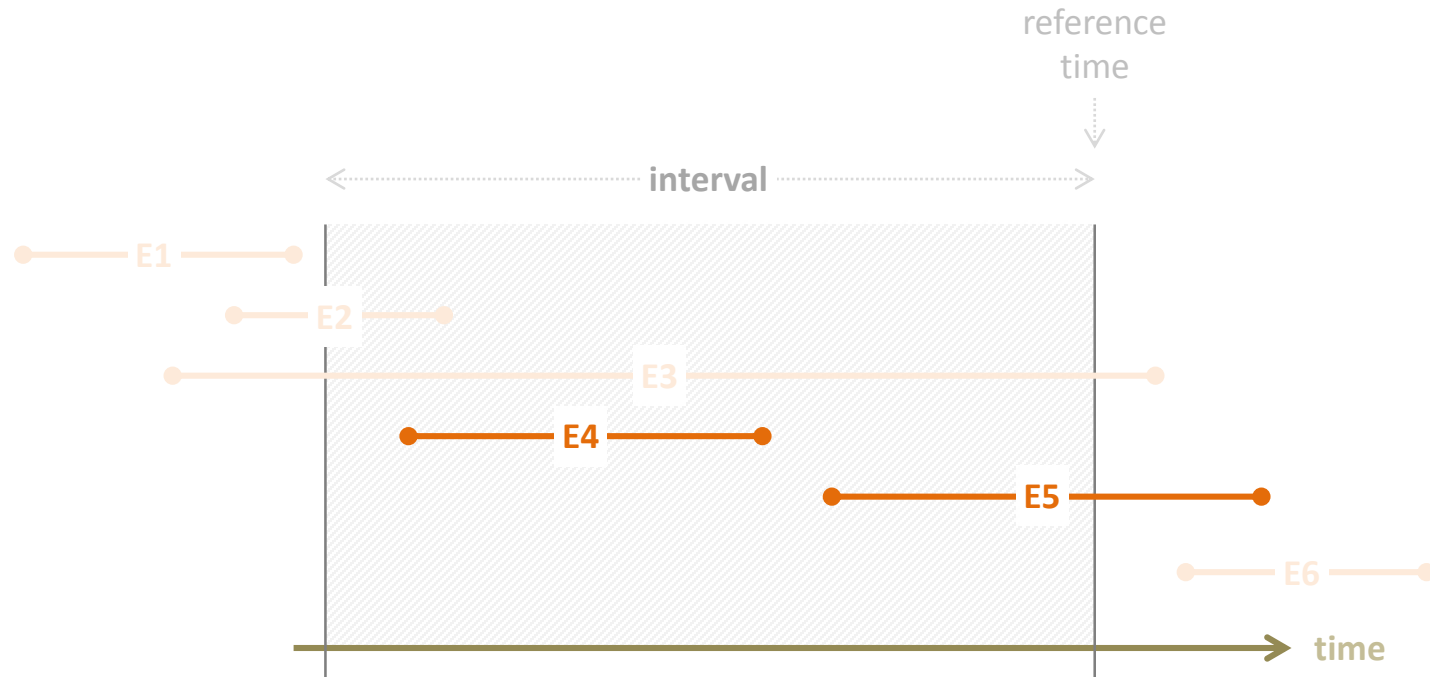
- OVERLAPS



Time operators

TIME JOIN

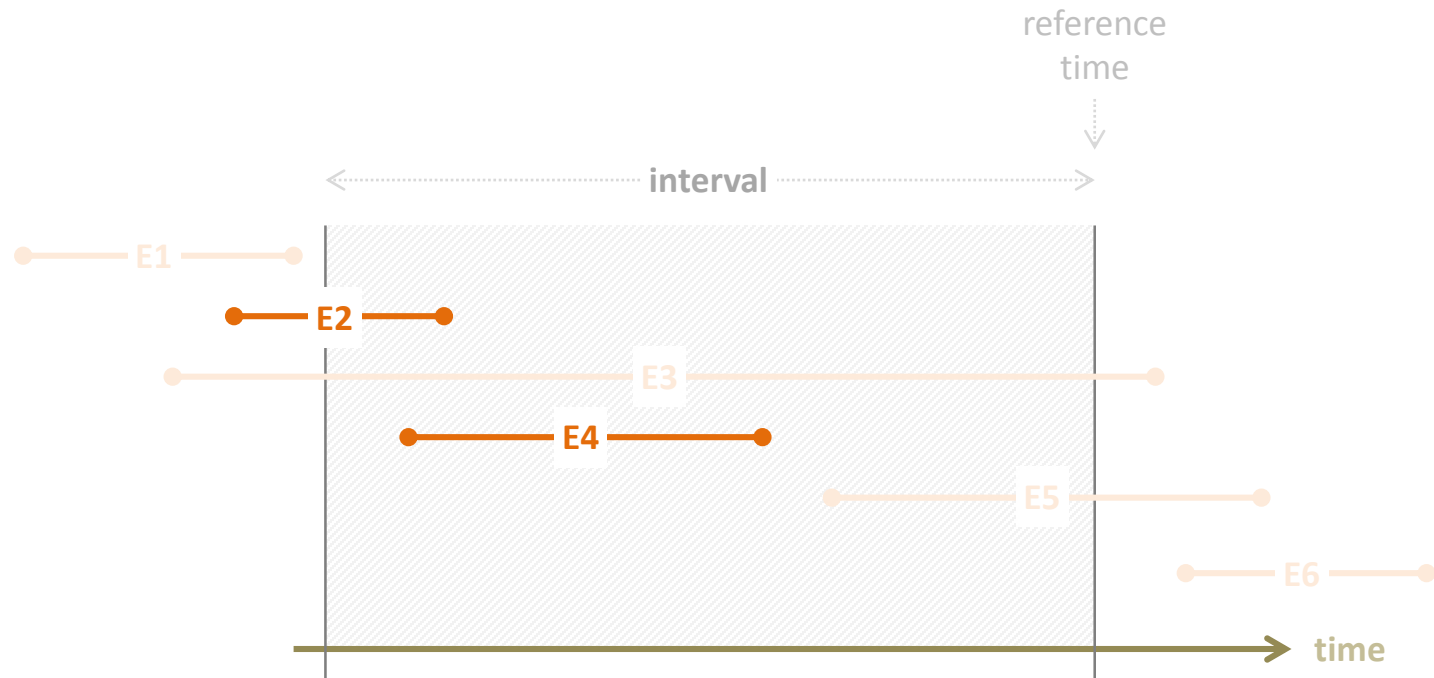
- INTERSECT
- BEGIN DURING**
- END DURING
- CURRENT AT BEGIN
- CURRENT AT END
- INCLUDED IN
- OVERLAPS



Time operators

TIME JOIN

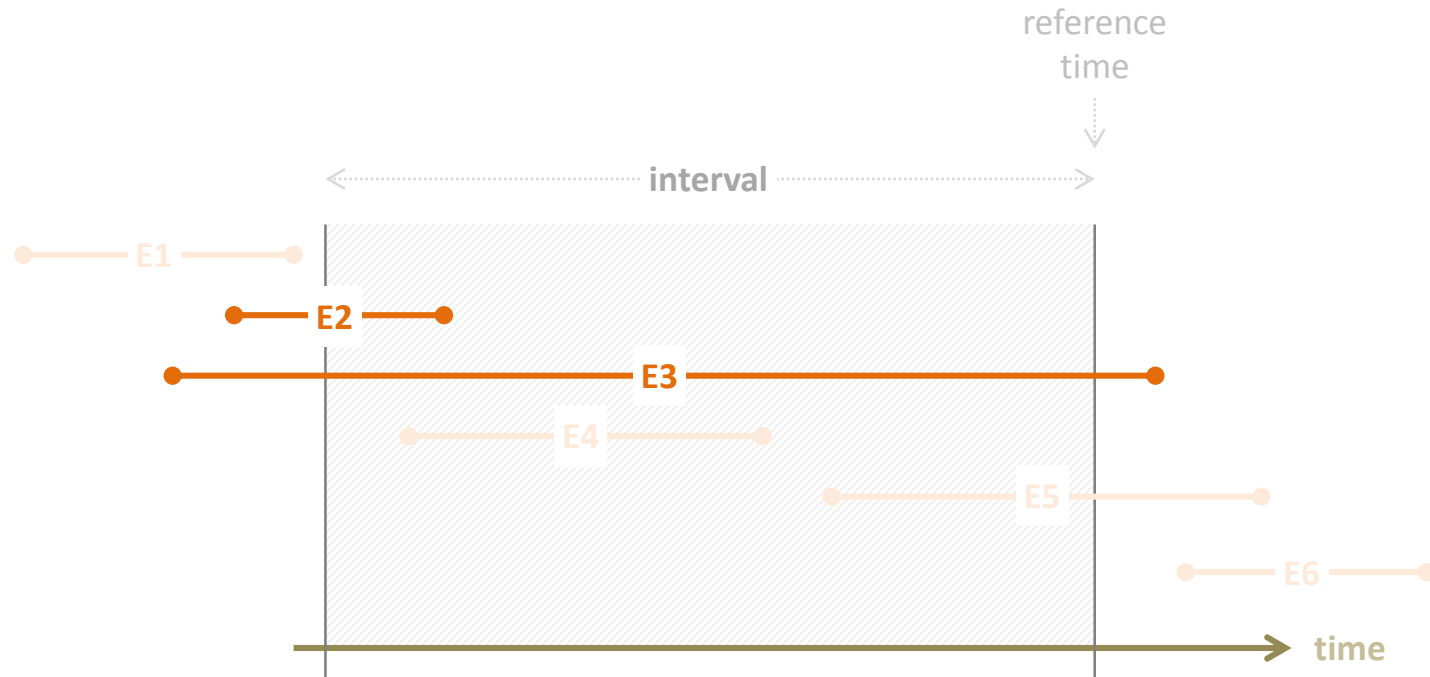
- INTERSECT
- BEGIN DURING
- **END DURING**
- CURRENT AT BEGIN
- CURRENT AT END
- INCLUDED IN
- OVERLAPS



Time operators

TIME JOIN

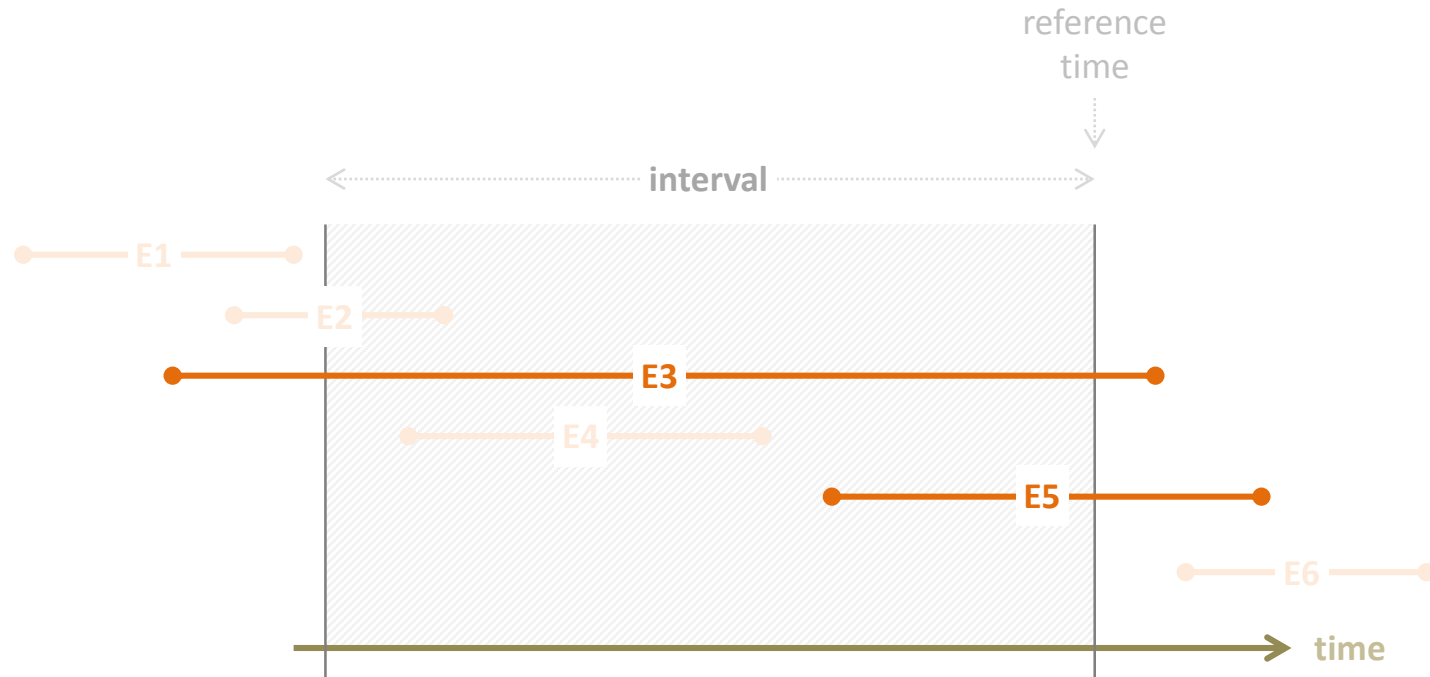
- INTERSECT
- BEGIN DURING
- END DURING
- **CURRENT AT BEGIN**
- CURRENT AT END
- INCLUDED IN
- OVERLAPS



Time operators

TIME JOIN

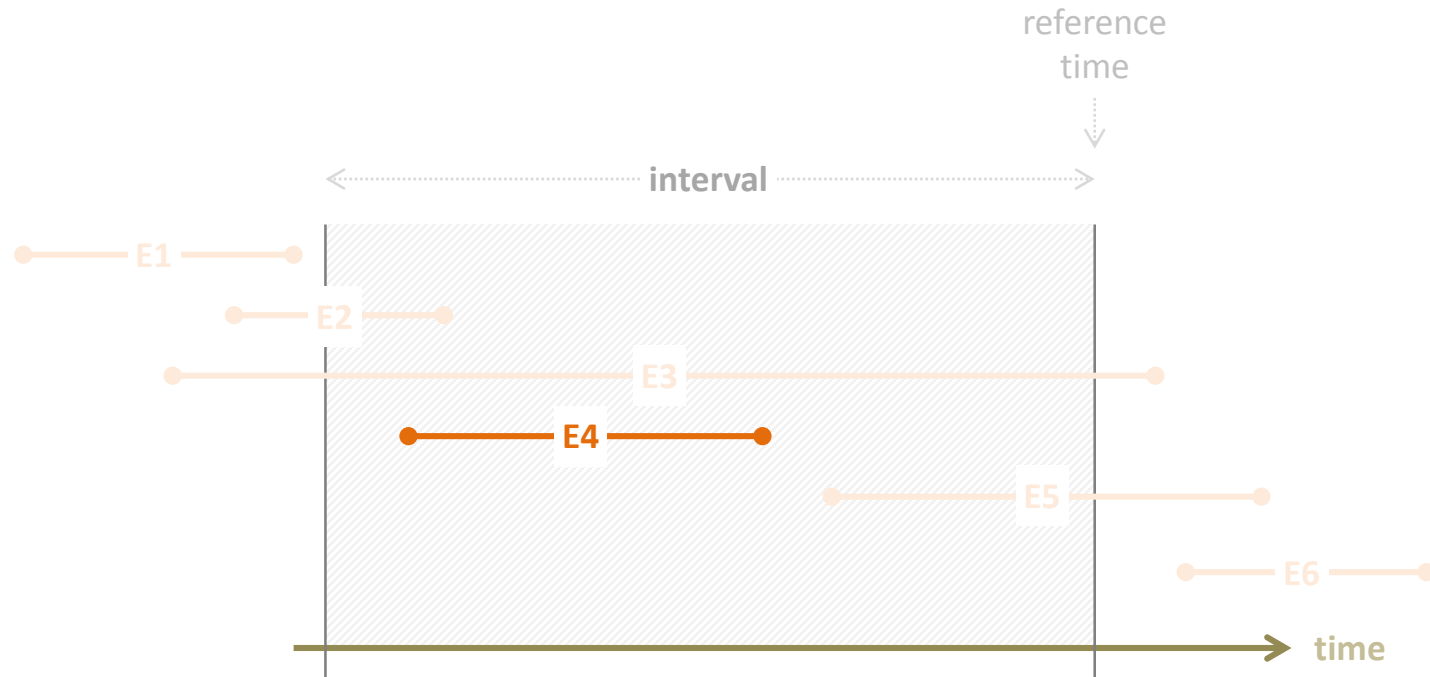
- INTERSECT
- BEGIN DURING
- END DURING
- CURRENT AT BEGIN
- **CURRENT AT END**
- INCLUDED IN
- OVERLAPS



Time operators

TIME JOIN

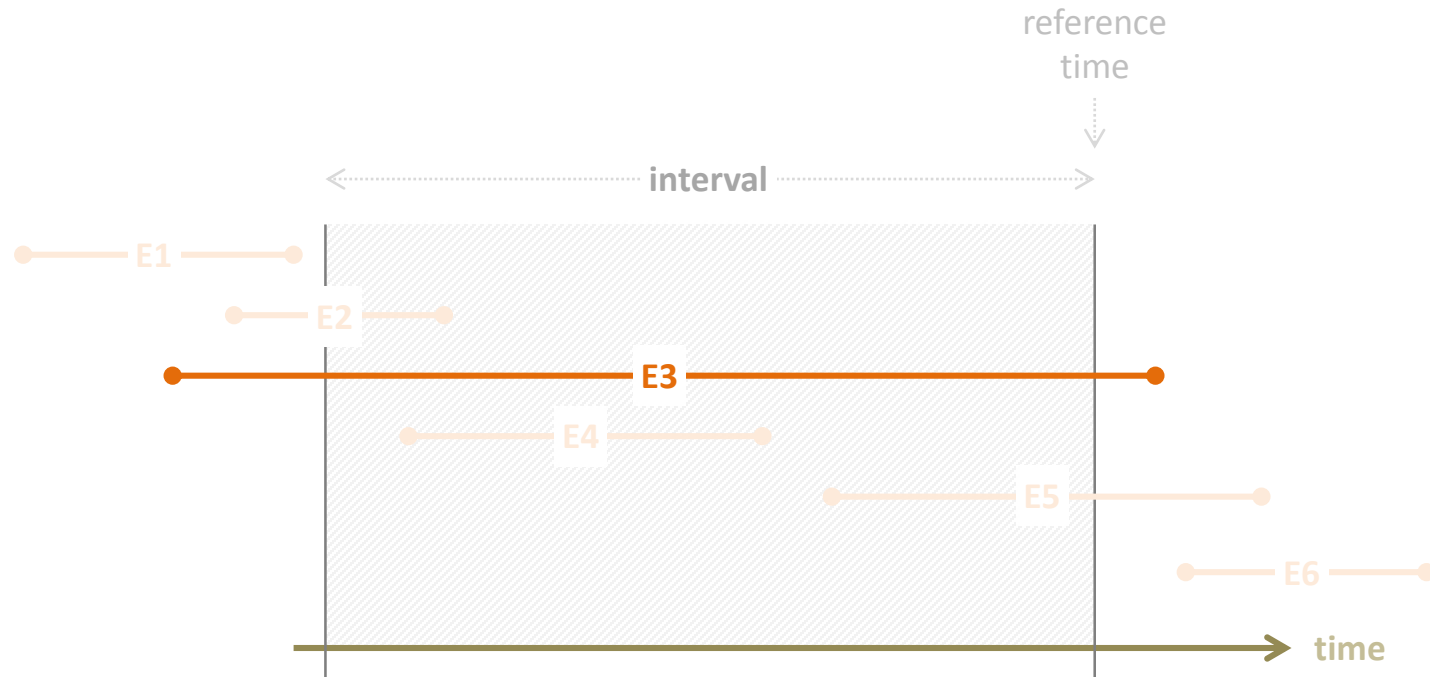
- INTERSECT
- BEGIN DURING
- END DURING
- CURRENT AT BEGIN
- CURRENT AT END
- **INCLUDED IN**
- OVERLAPS



Time operators

TIME JOIN

- INTERSECT
- BEGIN DURING
- END DURING
- CURRENT AT BEGIN
- CURRENT AT END
- INCLUDED IN
- **OVERLAPS**



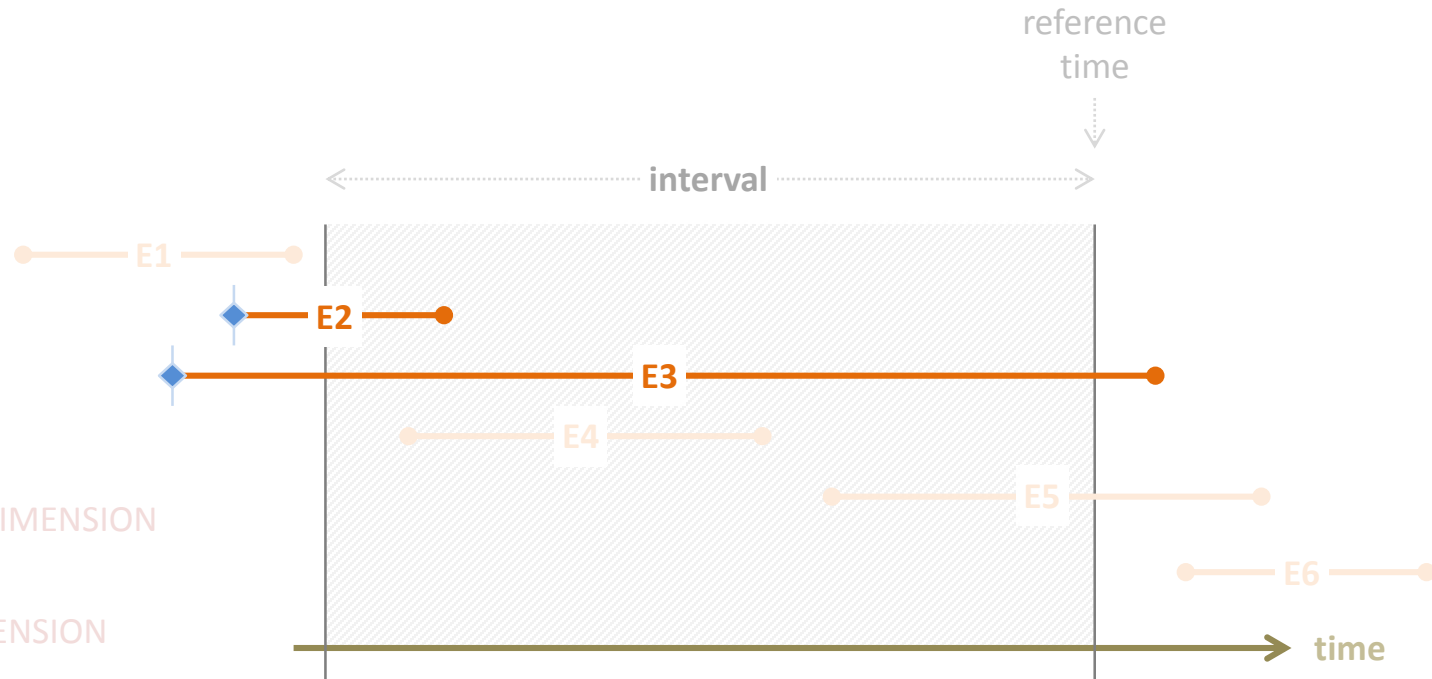
Time operators

3. TIME INTERESTS

Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT BEGIN)

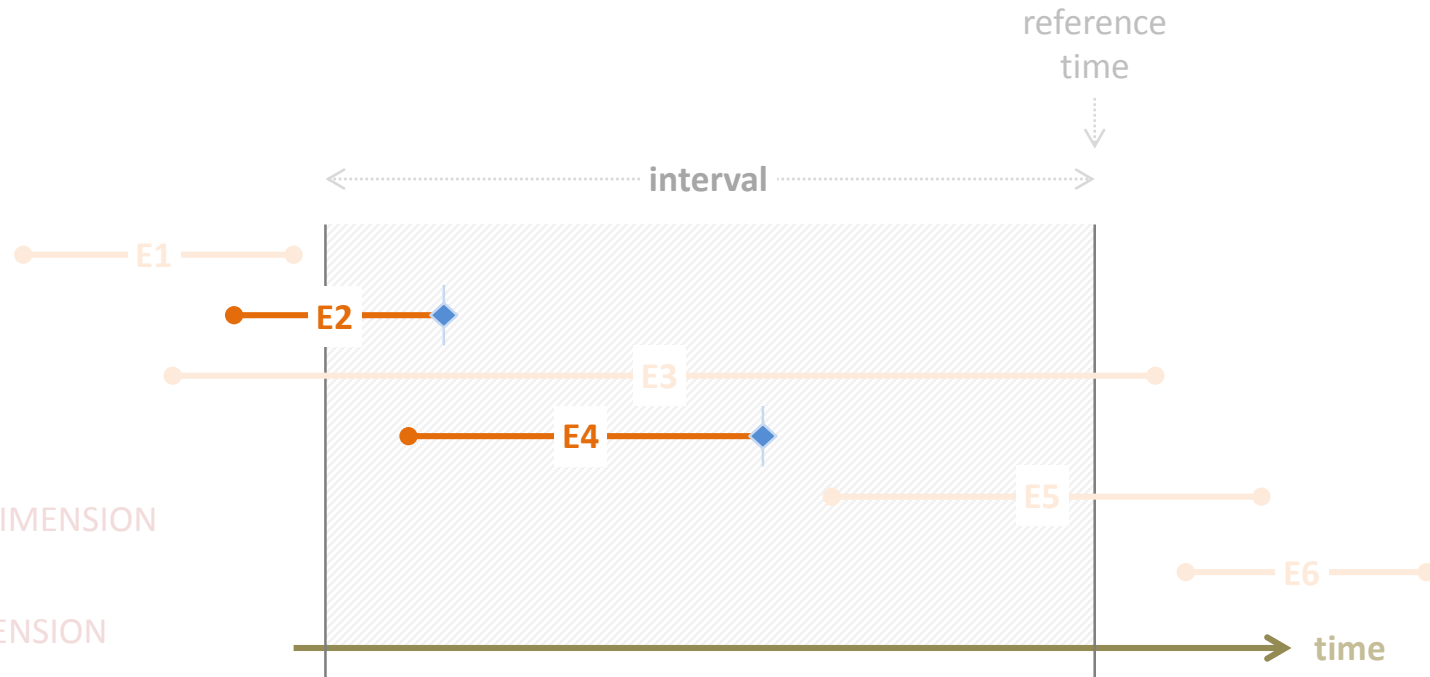
- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: END DURING)

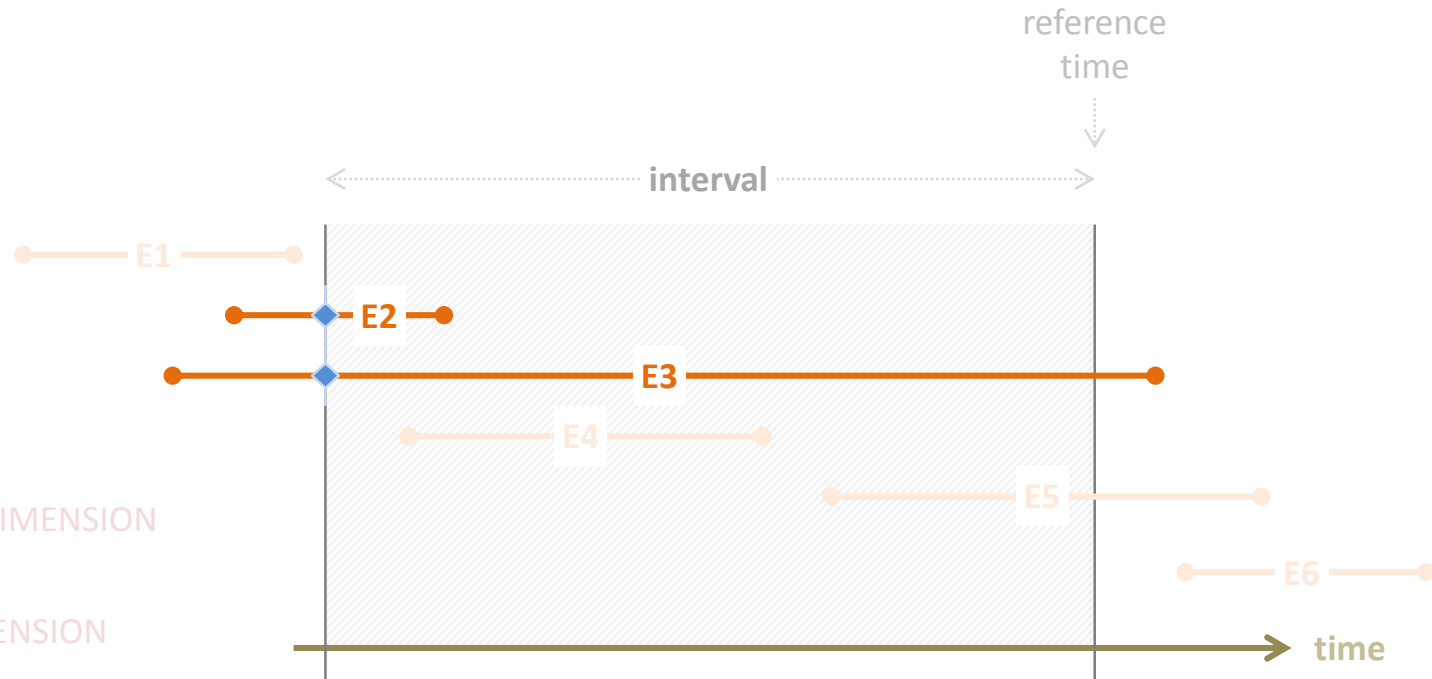
- AT DATA CREATION
- **AT DATA DELETION**
- AT DIMENSION BEGIN
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT BEGIN)

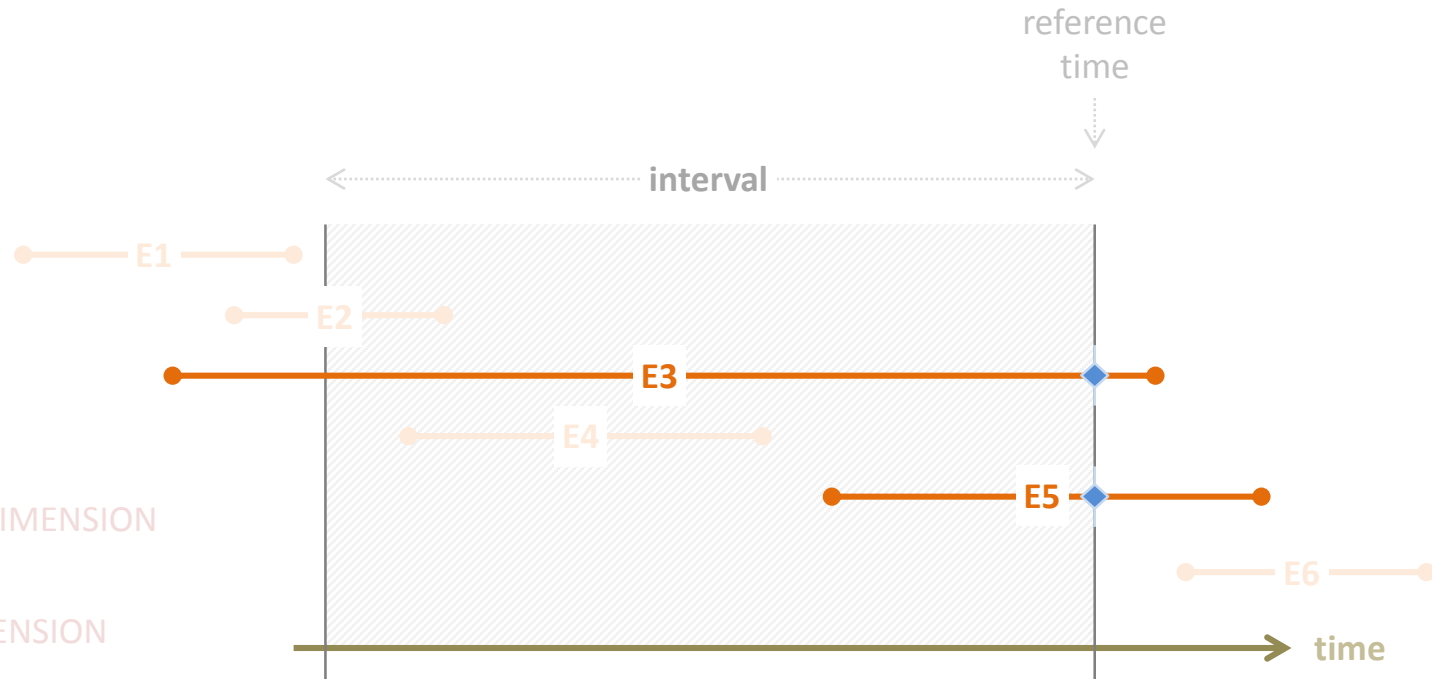
- AT DATA CREATION
- AT DATA DELETION
- **AT DIMENSION BEGIN**
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT END)

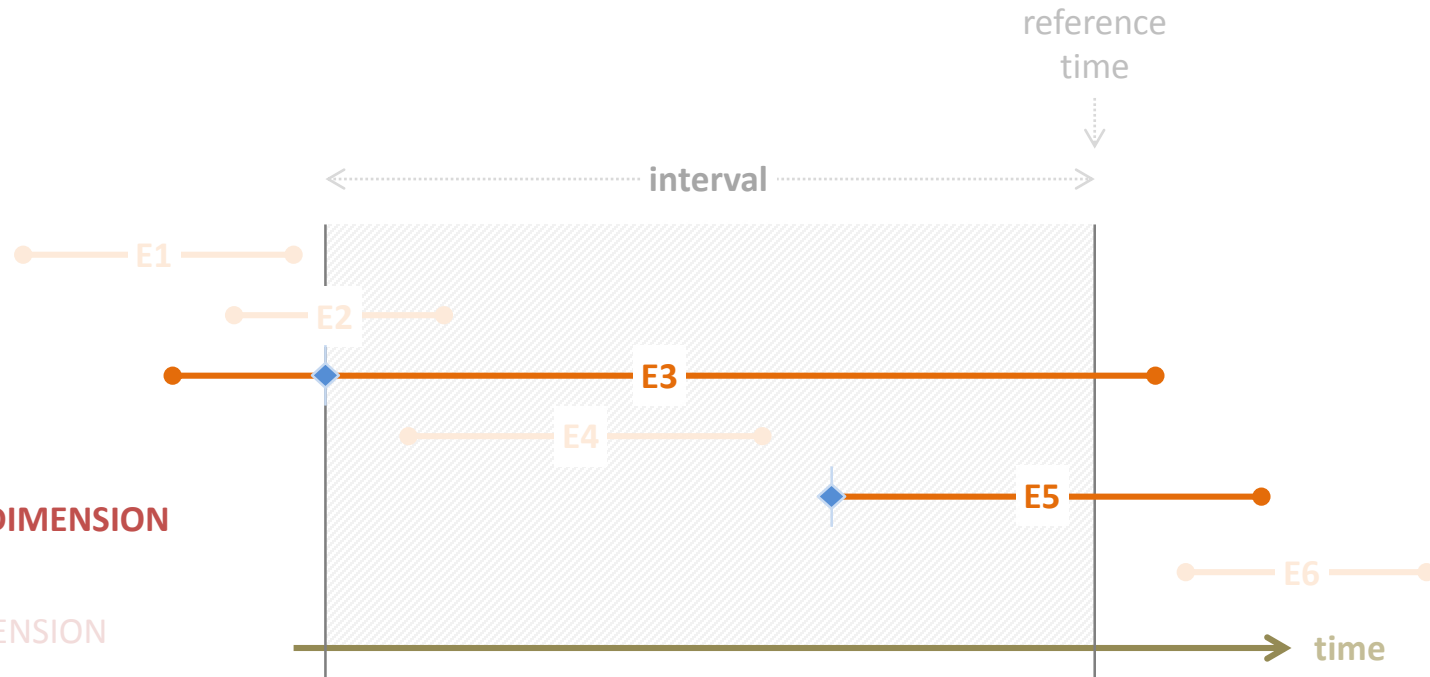
- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- **AT DIMENSION END**
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT END)

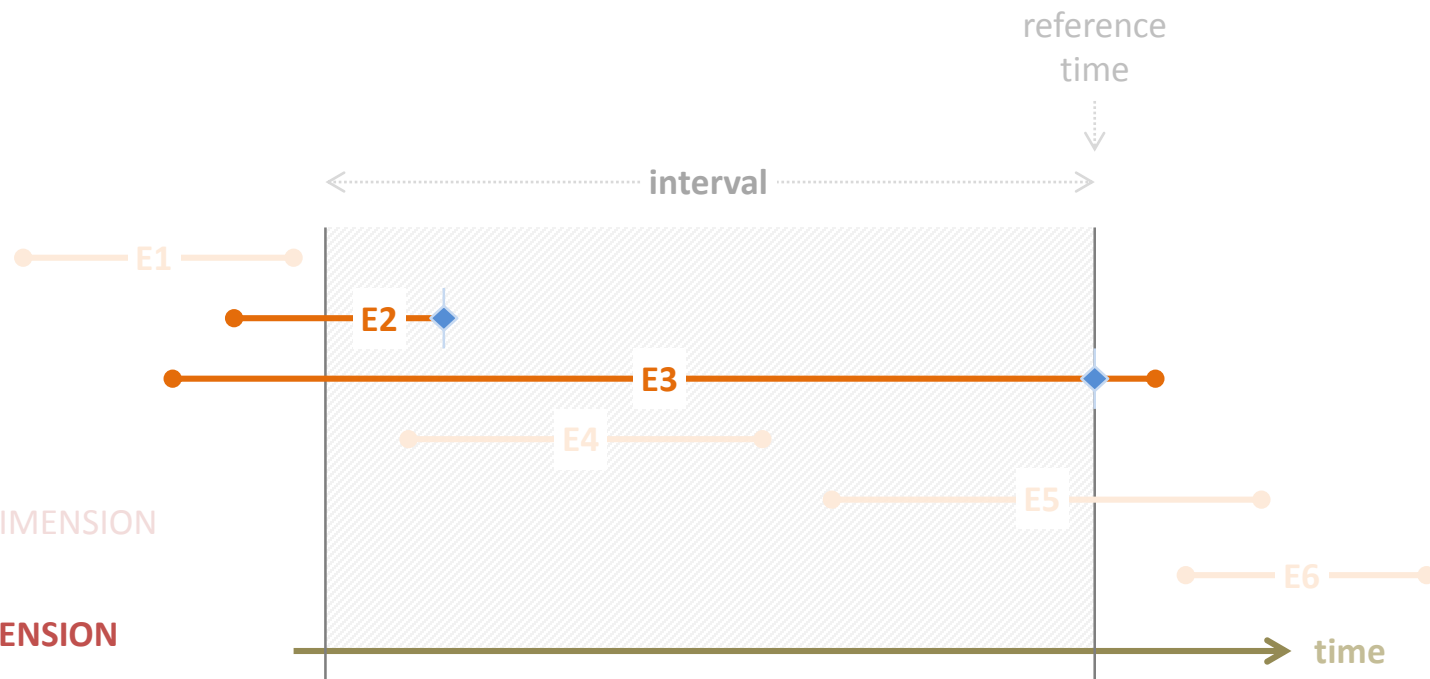
- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- AT DIMENSION END
- **AT YOUNGEST DATA IN DIMENSION**
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT BEGIN)

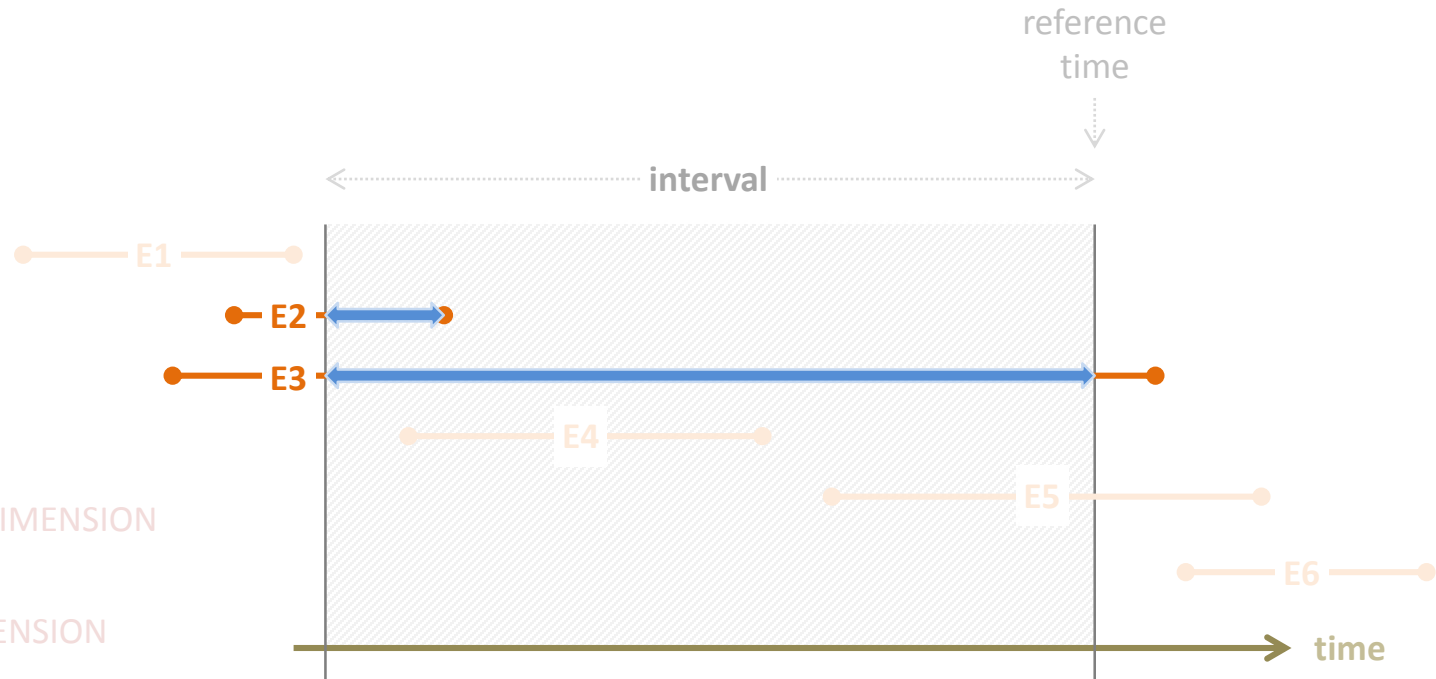
- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- **AT OLDEST DATA IN DIMENSION**
- INTERSECTION
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST (On TIME JOIN: CURRENT AT BEGIN)

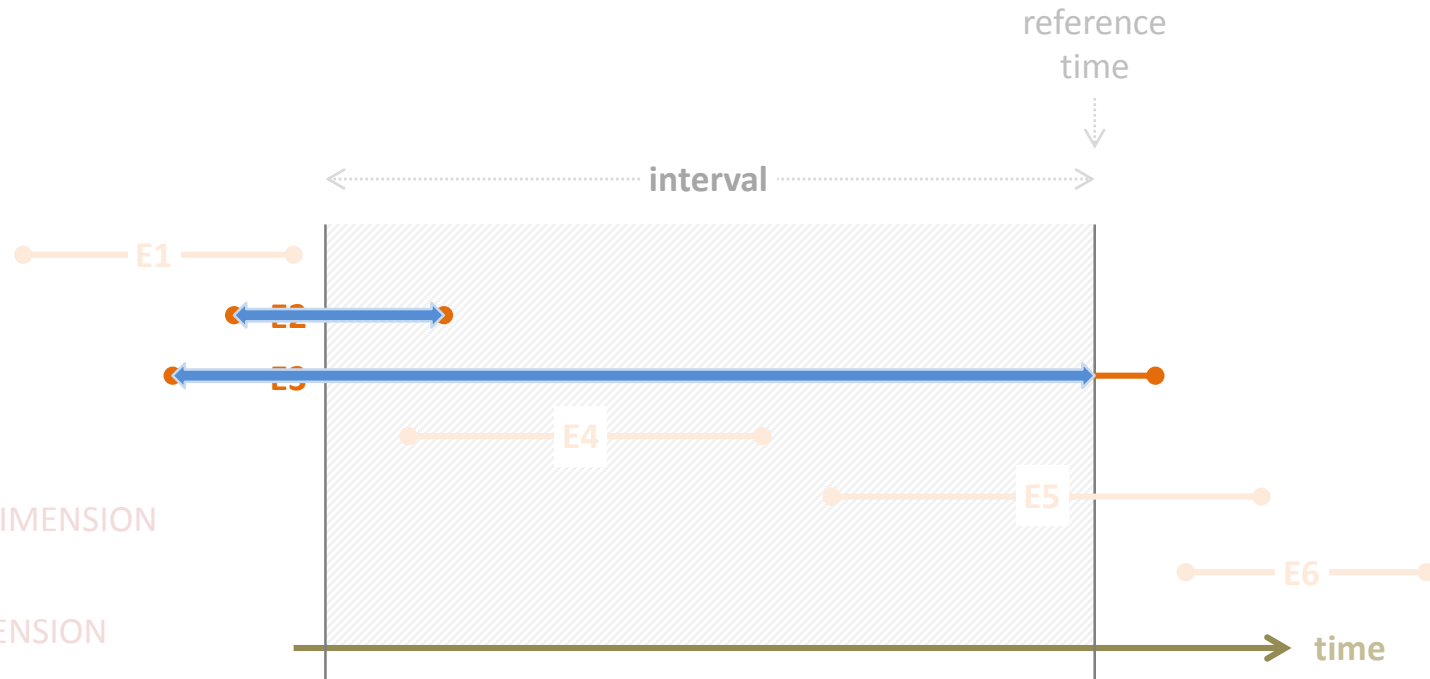
- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- **INTERSECTION**
- DATA INTERVAL UNTIL DIMENSION



Time operators

TIME INTEREST

- AT DATA CREATION
- AT DATA DELETION
- AT DIMENSION BEGIN
- AT DIMENSION END
- AT YOUNGEST DATA IN DIMENSION
- AT OLDEST DATA IN DIMENSION
- INTERSECTION
- **DATA INTERVAL UNTIL DIMENSION**



(On TIME JOIN: CURRENT AT BEGIN)

Time operators

4. COMPATIBILITY TABLE

Time operators

TIME JOIN \ TIME INTEREST	INTERSECT	OVERLAPS	INCLUDED IN	BEGIN DURING	END DURING	CURRENT AT BEGIN	CURRENT AT END
AT DATA CREATION	⚠	⚠	✓	✓	⚠	⚠	⚠
AT DATA DELETION	⚠	⚠	✓	⚠	★	⚠	⚠
AT DIMENSION BEGIN	✗	✓	✗	✗	✗	★	✗
AT DIMENSION END	✗	✓	✗	✗	✗	✗	★
AT YOUNGEST DATA IN DIMENSION	✓	✓	✓	✓	✓	✓	✓
AT OLDEST DATA IN DIMENSION	✓	✓	✓	✓	✓	✓	✓
INTERSECTION	★	★	★	✓	✓	✓	✓
DATA INTERVAL UNTIL DIMENSION	⚠	⚠	✓	✓	⚠	⚠	⚠