

Source	Function	Op	Return	Description
period_compat	adjacent(period, period)		bool	next(p1) = first(p2) or next(p2) = first(p1)
period_compat	after(period, period)		bool	All values in period p1 occur after the end of p2
period_compat	before(period, period)		bool	All values in period p1 occur before the start of p2
period_compat	contained_by(period, period)	<@	bool	Period p2 contains all values in p1
period_compat	contained_by(timestamptz, period)	<@	bool	Period p2 contains timestamp ts1
period_compat	contains(period, period)	@>	bool	Period p1 contains all values in p2
period_compat	contains(period, timestamptz)	@>	bool	Period p1 contains timestamp ts1
period_compat	equals(period, period)	=	bool	Periods p1 and p2 are equal
period_compat	first(period)		timestamptz	Return 1 <sup>st</sup> time included in period
period_compat	last(period)		timestamptz	Return last time included in period
period_compat	nequals(period, period)	<>	bool	Periods p1 and p2 are not equal
period_compat	next(period)		timestamptz	Return first time after end of period
period_compat	overlaps(period, period)	&&	bool	Periods p1 and p2 overlap
period_compat	period_intersect(period, period)	&	period	Return period containing all values in both p1 and p2
period_compat	period_minus(period, period)		period	Period p1 minus period p2, if p2 is contained exception is raised
period_compat	period_union(period, period)	+	period	Return union of periods p1 and p2. If they are not overlapping or adjacent an exception is raised
period_compat	period(date)		period	constructor
period_compat	period(timestamptz, interval)		period	constructor
period_compat	period(timestamptz, numeric)		period	constructor
period_compat	period(timestamptz, timestamptz)		period	constructor
period_compat	period(varchar)		period	constructor [Start, End), [Start, End], (Start, End), (Start, End]
period_compat	prior(period)		timestamptz	Return 1 granule prior to period start

Source	Function	Op	Return	Description
chronos_utils	date_add(date, numeric)	+	timestampz	Add n days to dt returns timestampz
chronos_utils	date_subtract(date, numeric)	-	timestampz	Subtract n days from dt returns timestampz
chronos_utils	day_of_cycle(date, date, int)		int	Return index of day dt, in an n day cycle that is anchored on anchor_date
chronos_utils	duration(interval)		numeric	Convert interval to duration in seconds
chronos_utils	last_day(date)		date	Last day of the month containing dt
chronos_utils	next(timestampz)		timestampz	Return one granule after ts
chronos_utils	prior(timestampz)		timestampz	Return one granule prior to ts
chronos_utils	time_add(time, numeric)	+	time	Add n seconds to t
chronos_utils	time_subtract(time, numeric)	-	time	Subtract n seconds from t
chronos_utils	timestamp_add(timestampz, numeric)	+	timestampz	Add n seconds to ts
chronos_utils	timestamp_subtract(timestampz, numeric)	-	timestampz	Subtract n seconds from ts
chronos_utils	to_interval(numeric)		interval	Convert duration in seconds to interval
chronos_utils	week_of_month(date, int)		int	Get +/- week index from beginning/end of month

Source	Function	Op	Return	Description
chronos	contained_by(period, period[])	<@	bool	period p1 contained by period[] pa1
chronos	contained_by(timestamptz, period[])	<@	bool	timestamp ts1 contained by period[] pa1
chronos	contains(period[], period)	@>	bool	Period[] pa1 contains period p2
chronos	contains(period[], timestamptz)	@>	bool	period[] pa1 contains timestamp ts1
chronos	duration(period)		numeric	length of period in seconds
chronos	ends(period, period)		bool	p1 and p2 have same end time and p1 ends after p2
chronos	enumerate(period, interval)		setof timestamp	enumerate all values contained in p1 incremented by interval I
chronos	mean_time(period)	@@	timestamptz	midpoint of the period p1
chronos	overlap_length(period, period)	< - >	interval	return the length of overlap between p1 and p2
chronos	period_exclude(period, period)	-	period[]	return period[] containing all values in period p1 that are not excluded by period p2
chronos	period_exclude(period[], period[])	-	period[]	return period[] containing all values of period[] pa1 that are not excluded by period[] pa2
chronos	period_grow(period, interval)	+	period	increases the length of period p1 by interval I
chronos	period_intersect(period[], period[])	&	period[]	return period[] containing all values included in both period[] pa1 or pa2
chronos	period_measure(period, period)		record	measure percentage of period p1 end in context of period ctx
chronos	period_shift(period, interval)		period	shifts period p1 right or left by interval I
chronos	period_shrink(period, interval)	-	period	reduces the length of period p1 by interval I if interval is > that period length it will be set to an empty period
chronos	period_union(period[], period[])	+	period[]	return period[] containing all values included in either period[] pa1 or pa2
chronos	range(period, period)	<+>	period	return period that contains both periods p1 and p2
chronos	range(period[])		period	return a period that contains all values in pa1
chronos	reduce(period[])		period[]	coalesce period[] pt1 by joining all adjacent or overlapping periods
chronos	starts(period, period)		bool	p1 and p2 have same start time and p1 ends before p2
chronos	to_char(period)		varchar	string representation of period