



Default Layout

Table blocked_slots_tbl

It contains slots for which exceptionally the employee is not available

* Pk	blocked_slot_id	smallserial	
*	blocked_slot_start	timestamp	The time and date at which the absence starts
*	blocked_slot_end	time	The time and date at which the absence ends
*	employee_id	bigint	The employee that is going to be absent
Indexes			
Pk	pk_blocked_slots_tbl_block_slot_id	blocked_slot_id	

Table booking_service_link_tbl

Add multiple services to single booking

*	booking_id	bigint	
*	service_id	smallint	

Table bookings_tbl

Contains all the data of client's bookings

*	booking_id	bigserial	
*	booking_date	timestamp	Date in which the booking was made
*	service_date	timestamp	Date in which the service will take place
*	employee_id	bigint	The employee that will be providing the service
*	customer_id	bigint	Information about the customer that made the booking
Foreign Keys			
	fk_bookings_tbl_booking_service_link_tbl (booking_id) ref booking_service_link_tbl (booking_id)		

Table branches_tbl

Information about the branches owned by the company

*	branch_id	smallserial	
*	branch_name	varchar(100)	The full name assigned to to the specific branch
*	location_id	smallint	The location of the branch
*	slots_conf_id	smallint	Slots settings
Foreign Keys			
	fk_branch_tbl_employee_tbl (branch_id) ref employees_tbl (branch_id)		

Table customers_tbl

Information about registered customers

*	customer_id	bigint	
*	customer_fullname	varchar(100)	The full name of a customer
*	customer_phone	varchar(20)	(UNIQUE) Mobile phone number
*	customer_email	varchar(100)	(UNIQUE) Customer's email
Foreign Keys			
	fk_customer_tbl_booking_tbl (customer_id) ref bookings_tbl (customer_id)		

Table employees_tbl

Information about all the employees of the company

*	employee_id	bigserial	
*	employee_forename	varchar(50)	Employee's first name
*	employee_surname	varchar(50)	Employee's last name
*	position_id	smallint	The position of the particular employee

Table employees_tbl			
*	branch_id	smallint	The branch for which the employee works
Foreign Keys			
	fk_employee_tbl_booking_tbl (employee_id) ref bookings_tbl (employee_id)		
	fk_employee_tbl_blocked_slot_tbl (employee_id) ref blocked_slots_tbl (employee_id)		

Table locations_tbl			
Full address of a unique branch			
* Pk	location_id	smallserial	
*	location_country	varchar(100)	Full name of the country
	location_city	varchar(100)	Full name of the city
*	location_address	varchar(200)	Street and building number
*	location_postcode	varchar(50)	Postcode of the branch
	location_timezone	varchar(20)	The timezone code of the location, e.g: GMT, EDT, IOT, EAT... (names are validated through pg_timezone_names)
Indexes			
Pk	pk_location_tbl_location_id	location_id	
Foreign Keys			
	fk_locations_tbl_branches_tbl (location_id) ref branches_tbl (location_id)		

Table position_service_link_tbl			
It specifies in multiple instances all the services that an employee in a certain position would provide			
*	position_id	smallint	
*	service_id	smallint	

Table position_shift_link_tbl			
The different shifts that positions can have, e.g.: general, summer, weekends, bank holidays...			
*	position_id	smallint	
*	shift_id	integer	

Table positions_tbl			
The different positions that employees could assume			
*	position_id	smallint	
*	position_name	varchar(100)	(UNIQUE) The name of the position of the employee
Foreign Keys			
	fk_position_tbl_provider_service_link_tbl (position_id) ref position_service_link_tbl (position_id)		
	fk_position_tbl_employee_tbl (position_id) ref employees_tbl (position_id)		
	fk_position_tbl_shift_staff_link_tbl (position_id) ref position_shift_link_tbl (position_id)		

Table services_tbl			
All the services that the company can provide			
*	service_id	smallserial	
*	service_name	varchar(100)	(UNIQUE) The way the company calls the service
	service_prep_duration	smallint	The minutes that the employee needs before the service can be provided (setting the equipment needed...)
*	service_duration	smallint	The duration of the service in minutes
	service_cleanup_duration	smallint	The minutes that the employee needs before another service can be provided (cleaning...)
*	service_price	money	The full price of the service
Foreign Keys			

Table services_tbl

	fk_service_tbl_provider_service_tbl (service_id) ref position_service_link_tbl (service_id)	
	fk_services_tbl_booking_service_link_tbl (service_id) ref booking_service_link_tbl (service_id)	

Table shifts_tbl

The shift for a specified range of dates (The shifts with the shortest range will precede others)

*	shift_id	serial	
*	shift_name	varchar(100)	E.g.: manager's summer shift
	shift_date_start	date	The date at which the shift will be effective (if null, it will be applied to every day and shifts with specified dates will take precedence)
	shift_date_end	date	The end date of the specified shift
*	shift_starting_time	time	The time at which the shift will start
	shift_break_start	time	The time at which the employees will have a break if there is one
	shift_break_end	time	The time at which the break will end if there is one
*	shift_ending_time	time	The time at which the shift will end
	shift_dayofweek	smallint[]	It restricts the shift to certain days or day of the week (1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday... 7=Sunday)
	shift_position	smallint[]	Position in month, e.g.: 1 = the first of the month (If a day of the week is specified, let's say Monday, it will take place the first Monday of the month) CONSTRAINT: The position number cannot exceed the month days or weeks in case of having specified the day of the week prior.

Foreign Keys

	fk_shift_tbl_shift_staff_link_tbl (shift_id) ref position_shift_link_tbl (shift_id)	
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Table slots_conf_tbl

Slots configurations

*	slots_conf_id	smallserial	
	slots_conf_available	smallint	The months from now that have slots opened to book, e.g.: 2 months = the calendar will always have 2 months worth of opened slots
*	slots_conf_interval	smallint	The times at which services can be booked, e.g.: each 30 minutes = 12:00, 12:30, 13:00...
*	slots_conf_break	smallint	If the minimum break is 5 minutes, and a booking finishes at 12:10, instead of waiting until 12:30 (30 minutes interval), the next slot will be at 12:15. Or in case of having a booking at 12:30 and the appointment lasts 30 minutes, instead of opening a slot at 12:30, it will open it at 12:35. The next slot will always be rounded up to a number finishing in 0 or 5.

Foreign Keys

	fk_slots_tbl_branches_tbl (slots_conf_id) ref branches_tbl (slots_conf_id)	
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