

Table Name	Attribute Name	Contents	Type	Format	Range	Required	PK or FK	FK Referenced Table
hotel	hotel_id	unique hotel identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	PK	
	hotel_name	name of hotel	varchar	xxxxxxxx	0 to 255 characters	Y		
	date_established	date hotel was established	date		1999-12-31 -32,768 to 32,767	Y		
	street_address	street address	varchar	xxxxxxxx	0 to 255 characters	Y		
	city	city	varchar	xxxxxxxx	0 to 255 characters	Y		
	state	state	varchar	xxxxxxxx	0 to 255 characters	Y		
	zip	zip code	varchar	xxxxxxxx	0 to 255 characters	Y		
	country	country	varchar	xxxxxxxx	0 to 255 characters	Y		
	num_of_pools	number of pools	smallint		2 -32,768 to 32,767	Y		
	num_of_hot_tubs	number of hot tubs	smallint		2 -32,768 to 32,767	Y		
	spa	does the hotel have a spa? yes or no	bit		1 0 or 1	Y		
	pet_friendly	is the hotel pet friendly? yes or no	bit		1 0 or 1	Y		
	reservation_id	unique reservation identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	PK	
reservation	hotel_id	unique hotel identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	FK	hotel
	guest_id	unique guest identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	FK	guest
	room	room number	smallint		123 -32,768 to 32,767	Y		
	rate_id	unique room rate identifier	smallint		123 -32,768 to 32,767	Y	FK	rates
	services_total	total services charge for the duration of their stay	decimal		55.55 decimal(38, 2)	Y		
	late_checkout_fee	0.00 if no late checkout fee	decimal		55.55 decimal(38, 2)	Y		
	subtotal	total before tax	decimal		55.55 decimal(38, 2)	Y		
	taxes	total amount of taxes guest has to pay for their stay	decimal		55.55 decimal(38, 2)	Y		
	final_amount_due	final amount guest has to pay for their stay	decimal		55.55 decimal(38, 2)	Y		
	checkin_date	checkin date	date		1999-12-31 January 1, 0001 to December 31, 9999	Y		
	checkout_date	checkout date	date		1999-12-31 January 1, 0001 to December 31, 9999	Y		
	billing_street_address	billing street address	varchar	xxxxxxxx	0 to 255 characters	Y		
	billing_city	billing city	varchar	xxxxxxxx	0 to 255 characters	Y		
	billing_state	billing state	varchar	xxxxxxxx	0 to 255 characters	Y		
	billing_zip	billing zip code	varchar	xxxxxxxx	0 to 255 characters	Y		
	billing_country	billing country	varchar	xxxxxxxx	0 to 255 characters	Y		
rates	rate_id	unique room rate identifier	smallint		123 -32,768 to 32,767	Y	PK	
	room_rate	amount due per one day of stay	decimal		55.55 decimal(38, 2)	Y		
death_and_taxes	reservation_id	unique reservation identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	PK, FK	reservation
	occupancy	occupancy tax charge	decimal		55.55 decimal(38, 2)	Y		
	sales	sales tax charge	decimal		55.55 decimal(38, 2)	Y		
	city	city tax charge	decimal		55.55 decimal(38, 2)	Y		
service_charges	charge_id	unique identifier for charge of a service	bigint		123 -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807	Y	PK	
	service_id	unique identifier for type of service offered	bigint		123 -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807	Y	FK	services
	reservation_id	unique reservation identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	FK	reservation
	date	date and time when service was ordered	datetime		2019-03-08 15:24:34 January 1, 1753, to December 31, 9999	Y		
guest	guest_id	unique guest identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	PK	
	fname	first name of guest	varchar	xxxxxxxx	0 to 255 characters	Y		
	lname	last name of guest	varchar	xxxxxxxx	0 to 255 characters	Y		
	email	email of guest	varchar	xxxxxxxx	0 to 255 characters	Y		
	phone	phone number of guest	varchar		5555555555 0 to 255 characters	Y		
services	service_id	unique identifier for type of service offered	bigint		123 -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807	Y	PK	
	service_name	name of service offered	varchar	xxxxxxxx	0 to 255 characters	Y		
	description	description of service	text	qwerty	0 to 2GB	Y		
	amount	amount due per service	decimal		55.55 decimal(38, 2)	Y		
revenue	hotel_id	unique hotel identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	FK	hotel
	vending_machines	revenue for vending machines	decimal		55.55 decimal(38, 2)	Y		
	guest_stays	revenue for guest stays	decimal		55.55 decimal(38, 2)	Y		
	total_revenue	total revenue	decimal		55.55 decimal(38, 2)	Y		
	profit_or_loss?	net profit or loss	decimal		55.55 decimal(38, 2)	Y		
	revenue_date	date an entry in this table was calculated	date		1999-12-31 January 1, 0001 to December 31, 9999	Y		
expenses	hotel_id	unique hotel identifier	int		123 -2,147,483,648 to 2,147,483,647	Y	FK	hotel
	electricity	electricity bill	decimal		55.55 decimal(38, 2)	Y		
	water	water bill	decimal		55.55 decimal(38, 2)	Y		
	gas	gas bill	decimal		55.55 decimal(38, 2)	Y		
	isp	isp bill	decimal		55.55 decimal(38, 2)	Y		
	wages	wages for employees	decimal		55.55 decimal(38, 2)	Y		
	supplies	supplies expenses	decimal		55.55 decimal(38, 2)	Y		

	marketing	marketing expenses	decimal		55.55	decimal(38, 2)	Y		
	licensing_permits	licensing and permits expenses	decimal		55.55	decimal(38, 2)	Y		
	property_tax	property tax, if not applicable set to 0.00 for entries	decimal		55.55	decimal(38, 2)	Y		
	maintenance	maintenance expenses	decimal		55.55	decimal(38, 2)	Y		
	vending_machines	vending machine expenses	decimal		55.55	decimal(38, 2)	Y		
	total_expenses	expenses tallied up	decimal		55.55	decimal(38, 2)	Y		
	expenses_date	date an entry in this table was calculated	date		1999-12-31	January 1, 0001 to December 31, 9999	Y		
maintenance	invoice_id	unique maintenance repair identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	PK	
	maintenance_name	What type of maintenance was ordered?	varchar	xxxxxxx		0 to 255 characters	Y		
	cost	cost of the maintenance	decimal		55.55	decimal(38, 2)	Y		
	date	date and time maintenance took place	datetime		2019-03-08 15:24:34	January 1, 1753, to December 31, 9999	Y		
	description	description of maintenance	text	qwerty		0 to 2GB	Y		
order	invoice_id	unique maintenance repair identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	FK	maintenance
	hotel_id	unique hotel identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	FK	hotel
room_availability	hotel_id	unique hotel identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	PK,FK	hotel
	room	room number	smallint		123	-32,768 to 32,767	Y		
	status	vacancy or no vacancy? is the room available or unavailable?	bit		1	0 or 1	Y		
employee	hotel_id	unique hotel identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	FK	hotel
	emp_id	unique employee identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	PK	
	emp_type_id	unique type of employee by number	int		123	-2,147,483,648 to 2,147,483,647	Y	FK	types_of_employees
	fname	first name	varchar	xxxxxxx		0 to 255 characters	Y		
	lname	last name	varchar	xxxxxxx		0 to 255 characters	Y		
	initial	initial	char(1)	X		1 character	Y		
	hire_date	hire date	date		1999-12-31	January 1, 0001 to December 31, 9999	Y		
	dob	date of birth	date		1999-12-31	January 1, 0001 to December 31, 9999	Y		
types_of_employees	emp_type_id	unique employee identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	PK	
	emp_type_name	unique type of employee by number	varchar	xxxxxxx		0 to 255 characters	Y		
	pay	pay by employee type	decimal		55.55	decimal(38, 2)	Y		
spare_inventory	hotel_id	unique hotel identifier	int		123	-2,147,483,648 to 2,147,483,647	Y	PK,FK	hotel
	all_purpose_cleaner	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	glass_cleaner	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	toilet_bowl_cleaner	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	disinfectant	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	bleach	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	laundry_detergent	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	stain_remover	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	fabric_softener	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	mops	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	buckets	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	vacuums	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	brooms	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	dust_pans	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	janitor_carts	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	scrub_brush	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	microfiber_cloth	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	bed_bug_spray	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	air_freshener	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	upholstery_cleaners	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	trash_bags	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	gloves	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	cleaning_uniforms	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	squeegees	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	pressure_washer	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	skimmers	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	nets	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	pool_vacuum	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	chemical_test_kit	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	snow_shovels	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	outdoor_heater	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	shampoo_bottle	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	conditioner_bottle	number of items in storage	smallint		30	-32,768 to 32,767	Y		
	bar_of_soap	number of items in storage	smallint		30	-32,768 to 32,767	Y		

	bedsheets	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	towles	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	blankets	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	pillowcases	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	pillows	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	tea_bags	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	sugar	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	cream	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	coffee_beans	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	key_cards	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	key_holders	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	fire_extinguishers	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	first_aid_kits	number of items in storage	smallint	30	-32,768 to 32,767	Y		
	luggage_racks	number of items in storage	smallint	30	-32,768 to 32,767	Y		
int	32 bit integer							
smallint	16 bit integer							
varchar	variable character data length (1 - 255)							
char	fixed character data length (1 - 255)							
bit	boolean value							
decimal	For precise floating point arithmetic (8,2)							
bigint	64 bit integer							
text	text field							
date	date							
datetime	specific time of a date							
pk	primary key							
fk	foreign key							