
Data Model

1 ER Diagram

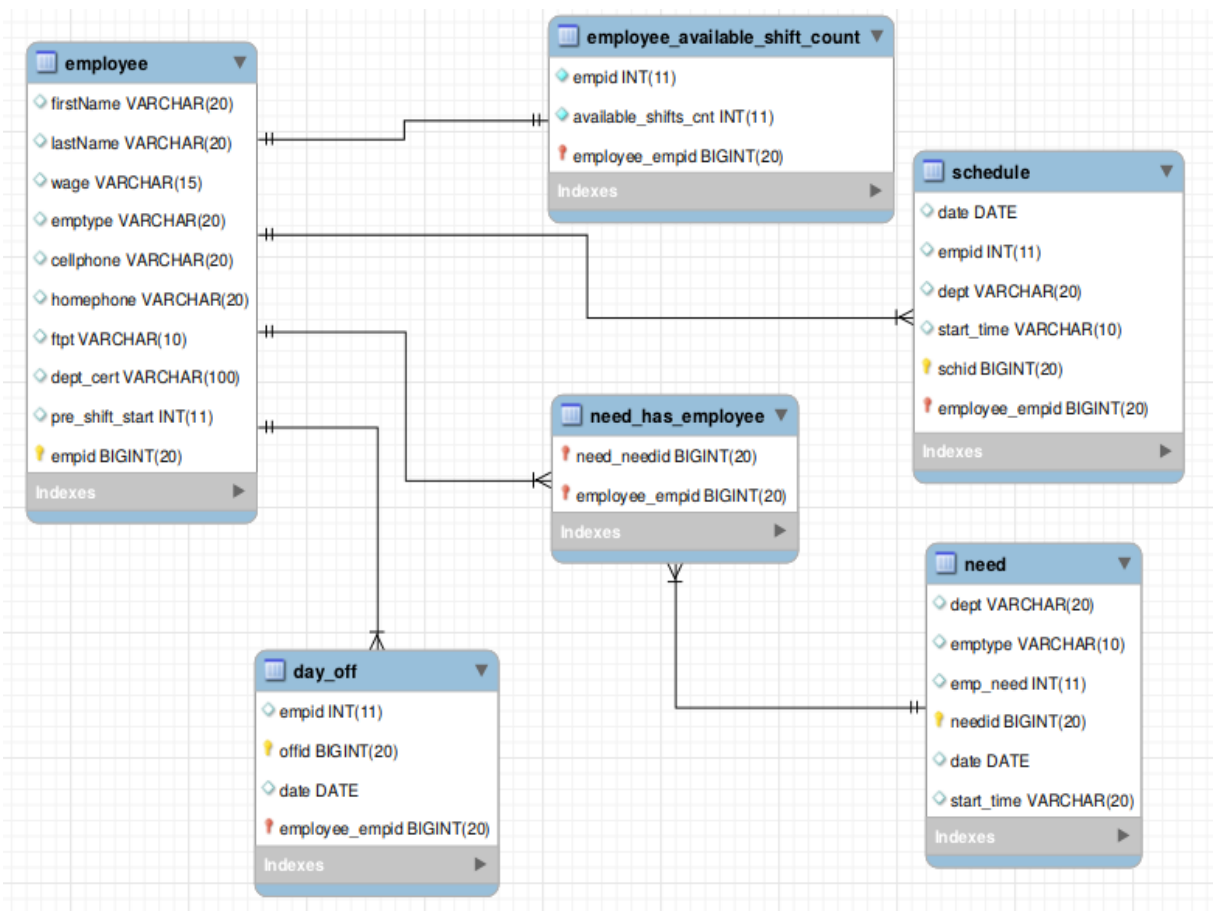


Figure 1: ER Diagram

2 Tables Description

DESCRIBE employee;

Table 1: **EMPLOYEE**

	Field	Type	Null	Key	Default	Extra
0	firstName	varchar(20)	YES		None	
1	lastName	varchar(20)	YES		None	
2	wage	varchar(15)	YES		None	
3	emptype	varchar(20)	YES		None	
4	cellphone	varchar(20)	YES		None	
5	homephone	varchar(20)	YES		None	
6	ftpt	varchar(10)	YES		None	
7	dept_cert	varchar(100)	YES		None	
8	pre_shift_start	int(11)	YES		None	
9	empid	bigint(20) unsigned	NO	PRI	None	auto_increment

DESCRIBE need;

Table 2: **NEED**

	Field	Type	Null	Key	Default	Extra
0	dept	varchar(20)	YES		None	
1	emptype	varchar(10)	YES		None	
2	emp_need	int(11)	YES		None	
3	needid	bigint(20) unsigned	NO	PRI	None	auto_increment
4	date	date	YES		None	
5	start_time	varchar(20)	YES		None	

DESCRIBE schedule;

Table 3: **SCHEDULE**

	Field	Type	Null	Key	Default	Extra
0	date	date	YES		None	
1	empid	int(11)	YES		None	
2	dept	varchar(20)	YES		None	
3	start_time	varchar(10)	YES		None	
4	schid	bigint(20) unsigned	NO	PRI	None	auto_increment

DESCRIBE day_off;

Table 4: **DAY OFF**

	Field	Type	Null	Key	Default	Extra
0	empid	int(11)	YES		None	
1	offid	bigint(20) unsigned	NO	PRI	None	auto_increment
2	date	date	YES		None	

DESCRIBE employee_available_shift_count;

Table 5: **EMPLOYEE AVAILABLE SHIFT**

	Field	Type	Null	Key	Default	Extra
0	empid	int(11)	NO		None	
1	available_shifts	int(11)	NO		None	