## 3.3.2 Employee

	Employee
PK	<u>id</u>
FK	user_id
70. O	position
	time_at_work
	time_at_desk
	time_of_last_break
	fatigue_threshold
	blink
	second_counter
	fatigue_rate
	on_break
	dob
	phone_number
	department

Figure 6 Employee database model structure

## **Description:**

The Employee model is used for storing employee-related information and fatigue analysis information. This model has a one-to-one relationship with the User model.

No.	Name	Description	Туре	Length	Extra
1.	id	This attribute is the id of the employee	Integer	-	PK
2.	user_id	This attribute is the id of the user associated with this employee	Integer	-	FK
3.	position	This attribute is the job position of the employee	varchar	32	-
4.	time_at_wo rk	This attribute is the duration of time the employee at work	Integer	1	-
5.	time_at_de sk	This attribute is the duration of time the employee is at their desk	Integer	-	-

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6.	time_of_las t_break	This attribute is the time the employee is on break	DateTime	-	-
7.	fatigue_thr esholdl	This attribute is the fatigue threshold of the employee indicating how fatigue the employee is	Float	•	-
8.	blink	This attribute is the number of blinks	Integer	-	-
9.	second_co unter	This attribute is the minute counter used in logic	Integer	ı	-
10.	fatigue_rat e	This attribute is the rate of how fast the employee can get fatigue	Float	-	-
11.	dob	This attribute is the birth date of the employee	Date	-	-
12.	phone_nu mber	This attribute is the phone number of the employee	varchar	12	-
13.	department	This attribute is the department the employee works at	varchar	40	-

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#### 3.3.3 Manager

	Manager
PK	<u>id</u>
FK	user_id

Figure 7 Manager database model structure

## **Description:**

The Manager model is used for storing manager-related information. This model has a one-to-one relationship with the User model.

No.	Name	Description	Туре	Length	Extra
1.	id	This attribute is the id of the manager	Integer	-	PK
2.	user_id	This attribute is the id of the user related to the manager	Integer	-	FK

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## 3.3.4 Employee\_Notification

Empl	oyee_Notification
PK	id
FK1	employee_id
FK2	notification_id

Figure 8 Employee\_Notification database table structure

## **Description:**

The Employee\_Notification table is used to store keys of employee model id and notification id.

No.	Name	Description	Туре	Length	Extra
1.	id	This attribute is the id of the keypair	Integer	-	PK
2.	employee_id	This attribute is the id of the employee	Integer	1	FK
3.	notification_ id	This attribute is the id of the notification the employee associates with	Integer	-	FK

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#### 3.3.5 Notification

Notification		
PK	<u>id</u>	
	sender	
	text	
	time	
	is_read	

Figure 9 Notification database model structure

## **Description:**

The Notification model is used to store notification related data which includes sender, text, time, and if it is read.

No.	Name	Description	otion Type Length		Extra
1.	id	This attribute is the id of the notification		ı	PK
2.	sender	This attribute is the name of the varchar sender 32		-	
3.	text	This attribute is the text of the notification varchar 256		256	-
4.	time	This attribute indicates the time the notification was created			-
5.	is_read	This attribute shows if the notification is read Boole		-	-

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## 3.3.6 FatigueRecord

FatigueRecord				
PK id				
FK	employee_id			
2	time_of_record			
	fatigue_threshold			

Figure 10 FatigueRecord database model structure

## **Description:**

The FatigueRecord model is used to store employee work status based on their fatigue.

No.	Name	Description Type		Length	Extra
1.	id	This attribute is the id of the fatigueRecord		-	PK
2.	employee_id	This attribute is the id of the employee the record associates with	Integer	-	FK
4.	time_of_rec ord	This attribute indicates the time the record was created	DateTime	1	1
5.	fatigue_thre shold	This attribute is the fatigue threshold of the employee indicating how fatigue the employee is	float	-	-

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## 3.3.7 BreakRequest

	BreakRequest			
PK <u>id</u>				
FK	employee_id			
	time			
	is_accepted			
	is_denied			

Figure 11 BreakRequest database model structure

# **Description:**

The BreakRequest model is used to store employee work status based on their fatigue.

No.	Name	Description	Type Length		Extra
1.	id	This attribute is the id of the breakRequest	Integer	1	PK
2.	employee_id	This attribute is the id of the employee the request associates with	Integer	1	FK
3.	time	This attribute indicates the time the request was created	DateTime	-	-
4.	is_accepted	This attribute indicates whether the breakRequest is accepted by the manager			-
5.	is_denied	This attribute indicates whether the breakRequest is denied by the manager	Boolean	-	-

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