

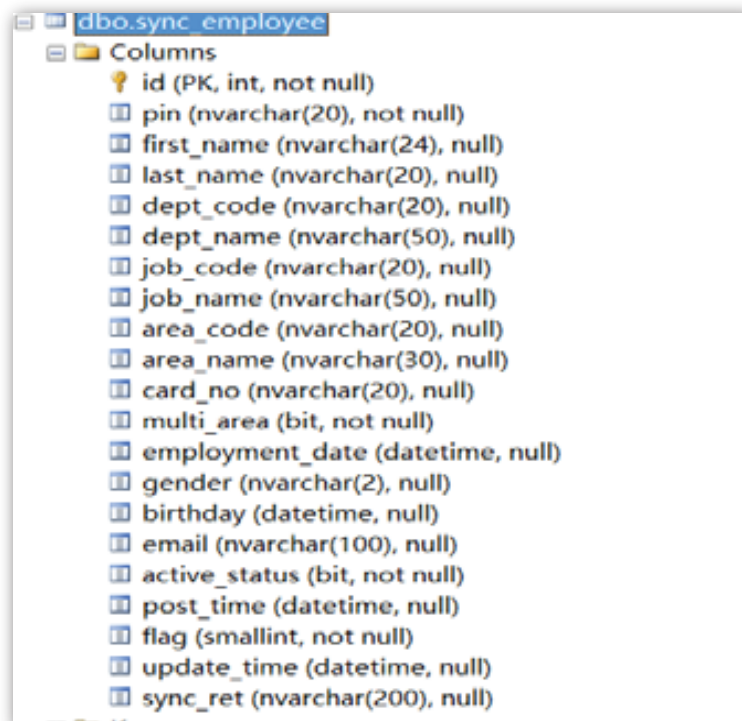
# HR Integration with BioTime 7.0

Biotime 7.0 can be integrated with HR Software for the data of employee, department, area and job synchronization using middle tables.

The method is explained below:

## 1. Employee Sync

### (A) Database Table



The screenshot displays the structure of the `dbo.sync_employee` table in a SQL Server environment. The table has the following columns:

Column Name	Data Type	Nullability	Other Attributes
id	int	not null	Primary Key (PK)
pin	nvarchar(20)	not null	
first_name	nvarchar(24)	null	
last_name	nvarchar(20)	null	
dept_code	nvarchar(20)	null	
dept_name	nvarchar(50)	null	
job_code	nvarchar(20)	null	
job_name	nvarchar(50)	null	
area_code	nvarchar(20)	null	
area_name	nvarchar(30)	null	
card_no	nvarchar(20)	null	
multi_area	bit	not null	
employment_date	datetime	null	
gender	nvarchar(2)	null	
birthday	datetime	null	
email	nvarchar(100)	null	
active_status	bit	not null	
post_time	datetime	null	
flag	smallint	not null	
update_time	datetime	null	
sync_ret	nvarchar(200)	null	

### (B) Workflow

BioTime will scan this middle table and if any data record found with flag 0, then it will be fetched and added/updated to BioTime. If the data doesn't exist in BioTime then it will add the employee, otherwise it will update the existing employee. After the update, it will change the flag from 0 to 1 and update the operation time in the `update_time` field and update the result to `sync_ret` field.

### (C) Fields

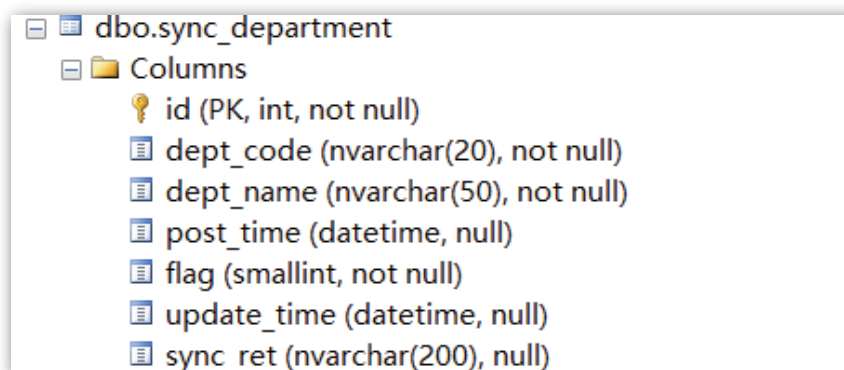
pin: User ID(unique)  
first\_name: First Name  
last\_name: Last Name  
dept\_code: Department Code  
dept\_name: Department Name  
job\_code: Job/Position Code  
job\_name: Job/Position Name  
area\_code: Area Code  
area\_name: Area Name  
card\_no: Card Number  
multi\_area(0/1): whether need append area or re-set  
employment\_date: Employment Date  
gender: Gender  
birthday: Birthday  
email: Email  
active\_status(0/1): if the value is 0 , then will do the resignation  
post\_time: The time when the data is inserted  
flag: Sync Flag default value should be 0  
update\_time: Sync time  
sync\_ret: Sync Result

### (D) Demo (MSSQL)

```
Insert into sync_employee('1', 'ZKTeco', 'ZK', 'ZKD','ZKDN','ZKJ','ZKJN','ZKA','ZKAN', '1234567', 0, '',  
'M',';', 1, GETDATE(), 0, NULL, NULL)
```

## 2. Department Sync

### (A) Database Table



### (B) Workflow

BioTime will scan this middle table and if it found any records with flag as 0 then it will be added/updated to BioTime. If the data doesn't exist in BioTime then it will add it, otherwise it will update the existing department. After the update it will change the flag from 0 to 1 and update the operation time in the update\_time field and update the result to sync\_ret field.

### (C) Fields

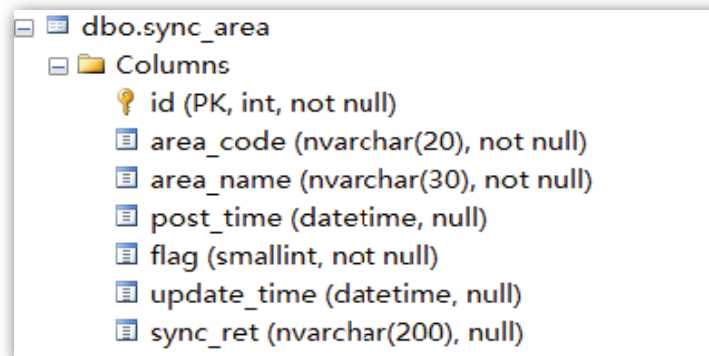
pin: User ID(unique)  
dept\_code: Department Code  
dept\_name: Department Name  
post\_time: The time when the data is inserted  
flag: Sync Flag default should be 0  
update\_time: Sync time  
sync\_ret: Sync Result

### (D) Demo (MSSQL)

Insert into sync\_department('1', 'ZKTeco', 'ZK', GETDATE(), 0, NULL, NULL)

## 3. Area Sync

### (A) Database Table



### (B) Workflow

BioTime will scan this middle table and if it found the record with flag 0 then it will be added/updated to BioTime. If the data doesn't exist in BioTime, then it will add it, otherwise it will update the existing area. After the update it will change the flag from 0 to 1 and update the operation time to update\_time field and update the result to sync\_ret field.

### (C) Fields

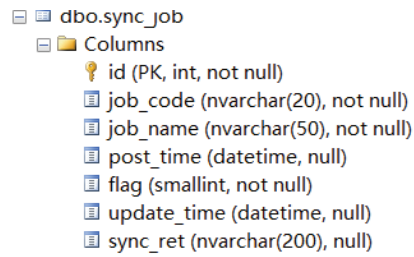
pin: User ID(unique)  
area\_code: Area Code  
area\_name: Area Name  
post\_time: The time when data insert  
flag: Sync Flag default should be 0  
update\_time: Sync time  
sync\_ret: Sync Result

### (D) Demo(MSSQL):

Insert into sync\_area('1', 'ZKTeco', 'ZK', GETDATE(), 0, NULL, NULL)

## 4. Job Sync

### (A) Database Table



```
dbo.sync_job
Columns
  id (PK, int, not null)
  job_code (nvarchar(20), not null)
  job_name (nvarchar(50), not null)
  post_time (datetime, null)
  flag (smallint, not null)
  update_time (datetime, null)
  sync_ret (nvarchar(200), null)
```

### (B) Workflow

BioTime will scan this middle table and if it found the record with flag 0, then it will be added/updated to BioTime. If the data doesn't exist in BioTime then it will add, otherwise it will be updated. After the update, it will change the flag from 0 to 1 and update the operation time to update time field and update the result to sync\_ret field.

### (C) Fields

pin: User ID(unique)  
job\_code: Job/Position Code  
job\_name: Job/Position Name  
post\_time: The time when data insert  
flag: Sync Flag default should be 0  
update\_time: Sync time  
sync\_ret: Sync Result

### (D) Demo (MSSQL)

```
Insert into sync_job('1', 'ZKTeco', 'ZK', GETDATE(), 0, NULL, NULL)
```

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