

1.

```
CREATE TABLE EMPLOYEE (  
EMP_NUM INT NOT NULL,  
EMP_TITLE VARCHAR(5),  
EMP_LNAME VARCHAR(25),  
EMP_FNAME VARCHAR(25),  
EMP_INITIAL CHAR(1),  
EMP_DOB DATE,  
EMP_HIRE_DATE DATE,  
EMP_AREACODE CHAR(3), DEFAULT '001',  
EMP_PHONE VARCHAR(8),  
EMP_MGR INT,  
PRIMARY KEY (EMP_NUM)  
);
```

The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree with 'sit103' selected. The top navigation bar includes 'Structure', 'SQL', 'Search', 'Query', 'Export', and 'Import'. A message states: 'Your SQL query has been executed successfully.' Below this, the SQL query 'DESC employee;' is shown. A table displays the structure of the 'employee' table.

Field	Type	Null	Key	Default	Extra
EMP_NUM	int(11)	NO	PRI	NULL	
EMP_TITLE	varchar(5)	YES		NULL	
EMP_LNAME	varchar(25)	NO		NULL	
EMP_FNAME	varchar(25)	NO		NULL	
EMP_INITIAL	char(1)	YES		NULL	
EMP_DOB	date	YES		NULL	
EMP_HIRE_DATE	date	YES		NULL	
EMP_AREACODE	char(3)	YES		001	
EMP_PHONE	varchar(8)	YES		NULL	
EMP_MGR	int(11)	YES		NULL	

2.

ALTER TABLE employee

CHANGE COLUMN EMP_MGR EMP_MGR_NUM INT;

phpMyAdmin

Server: 127.0.0.1 » Database: sit103 » Table: employee

Browse Structure SQL Search Insert Export Import

Show query box

Your SQL query has been executed successfully.

DESC employee;

[Edit inline] [Edit] [Create PHP code]

Extra options

Field	Type	Null	Key	Default	Extra
EMP_NUM	int(11)	NO	PRI	NULL	
EMP_TITLE	varchar(5)	YES		NULL	
EMP_LNAME	varchar(25)	NO		NULL	
EMP_FNAME	varchar(25)	NO		NULL	
EMP_INITIAL	char(1)	YES		NULL	
EMP_DOB	date	YES		NULL	
EMP_HIRE_DATE	date	YES		NULL	
EMP_AREACODE	char(3)	YES		001	
EMP_PHONE	varchar(8)	YES		NULL	
EMP_MGR_NUM	int(11)	YES		NULL	

Query results operations

3.

ALTER TABLE EMPLOYEE

ADD CONSTRAINT FK_EMPLOYEE_MANAGER

FOREIGN KEY (EMP_MGR_NUM) REFERENCES EMPLOYEE (EMP_NUM);

phpMyAdmin

Server: 127.0.0.1 » Database: sit103 » Table: KEY_COLUMN_USAGE

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 1 (2 total, Query took 0.0014 seconds.)

```
SELECT COLUMN_NAME, CONSTRAINT_NAME, REFERENCED_COLUMN_NAME, REFERENCED_TABLE_NAME FROM information_schema.KEY_COLUMN_USAGE WHERE TABLE_NAME = 'EMPLOYEE';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

COLUMN_NAME	CONSTRAINT_NAME	REFERENCED_COLUMN_NAME	REFERENCED_TABLE_NAME
EMP_NUM	PRIMARY	NULL	NULL
EMP_MGR_NUM	FK_EMPLOYEE_MANAGER	EMP_NUM	employee

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

4.

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (100, 'Mr.',  
'Kolmycz','George','D','1942-06-15','1985-03-15','615','324-5456',NULL);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (101, 'Ms.', 'Lewis','Rhonda','G','1965-  
03-19','1986-04-25','615','324-4472',100);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (102, 'Mr.',  
'Vandam','Rhett',NULL,'1958-11-14','1990-12-20','901','675-8993',100);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (103, 'Ms.', 'Jones','Anne','M','1974-  
10-16','1994-08-28','615','898-3456',100);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (104, 'Mr.', 'Lange','John','P','1971-11-  
08','1994-10-20','901','504-4430',NULL);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (105, 'Mr.',  
'Williams','Robert','D','1975-03-14','1998-11-08','615','890-3220',NULL);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (106, 'Mrs.',  
'Smith','Jeanine','K','1968-02-12','1989-01-05','615','324-7883',105);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (107, 'Mr.', 'Diante','Jorge','D','1974-  
08-21','1994-07-02','615','890-4567',105);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (108, 'Mr.',  
'Wiesenbach','Paul','R','1966-02-14','1992-11-18','615','897-4358',NULL);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (109, 'Mr.', 'Smith','George','K','1961-  
06-18','1989-04-14','901','504-3339',108);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (110, 'Mrs.',  
'Genkazi','Leighla','W','1970-05-19','1990-12-01','901','569-0093', 108);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (111, 'Mr.',  
'Washington','Rupert','E','1966-01-03','1993-06-21','615','890-4925',105);
```

```
INSERT INTO `employee`(`EMP_NUM`, `EMP_TITLE`, `EMP_LNAME`, `EMP_FNAME`, `EMP_INITIAL`, `EMP_DOB`,  
`EMP_HIRE_DATE`, `EMP_AREACODE`, `EMP_PHONE`, `EMP_MGR_NUM`) VALUES (112, 'Mr.',  
'Johnson','Edward','E','1961-05-14','1983-12-01','615','898-4387',100);
```

```
INSERT INTO `employee`(`EMP_NUM`,`EMP_TITLE`,`EMP_LNAME`,`EMP_FNAME`,`EMP_INITIAL`,`EMP_DOB`,`EMP_HIRE_DATE`,`EMP_AREACODE`,`EMP_PHONE`,`EMP_MGR_NUM`) VALUES (113,'Ms.','Smythe','Melanie','P','1970-09-15','1999-05-11','615','324-9006',105);
```

```
INSERT INTO `employee`(`EMP_NUM`,`EMP_TITLE`,`EMP_LNAME`,`EMP_FNAME`,`EMP_INITIAL`,`EMP_DOB`,`EMP_HIRE_DATE`,`EMP_AREACODE`,`EMP_PHONE`,`EMP_MGR_NUM`) VALUES (114,'Ms.','Brandon','Marie','G','1956-11-02','1979-11-15','901','882-0845',108);
```

```
INSERT INTO `employee`(`EMP_NUM`,`EMP_TITLE`,`EMP_LNAME`,`EMP_FNAME`,`EMP_INITIAL`,`EMP_DOB`,`EMP_HIRE_DATE`,`EMP_AREACODE`,`EMP_PHONE`,`EMP_MGR_NUM`) VALUES (115,'Mrs.','Saranda','Hermine','R','1972-07-25','1993-04-23','615','324-5505',105);
```

```
INSERT INTO `employee`(`EMP_NUM`,`EMP_TITLE`,`EMP_LNAME`,`EMP_FNAME`,`EMP_INITIAL`,`EMP_DOB`,`EMP_HIRE_DATE`,`EMP_AREACODE`,`EMP_PHONE`,`EMP_MGR_NUM`) VALUES (116,'Mr.','Smith','George','A','1965-11-08','1988-12-10','615','890-2984',108);
```

phpMyAdmin

Server: 127.0.0.1 » Database: sit103 » Table: EMPLOYEE

Recent Favorites

company10
information_schema
Views
institute
New
student
mysql
performance_schema
phpmyadmin
sit103
New
company
employee
manages
works
test

		EMP_NUM	EMP_TITLE	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_DOB	EMP_HIRE_DATE	EMP_AREACODE	EMP_PHONE	EMP_MGR_NUM
<input type="checkbox"/>	Edit Copy Delete	100	Mr.	Kolmycz	George	D	1942-06-15	1985-03-15	615	324-5456	NULL
<input type="checkbox"/>	Edit Copy Delete	101	Ms.	Lewis	Rhonda	G	1965-03-19	1986-04-25	615	324-4472	100
<input type="checkbox"/>	Edit Copy Delete	102	Mr.	Vandam	Rhett	NULL	1958-11-14	1990-12-20	901	675-8993	100
<input type="checkbox"/>	Edit Copy Delete	103	Ms.	Jones	Anne	M	1974-10-16	1994-08-28	615	898-3456	100
<input type="checkbox"/>	Edit Copy Delete	104	Mr.	Lange	John	P	1971-11-08	1994-10-20	901	504-4430	NULL
<input type="checkbox"/>	Edit Copy Delete	105	Mr.	Williams	Robert	D	1975-03-14	1998-11-08	615	890-3220	NULL
<input type="checkbox"/>	Edit Copy Delete	106	Mrs.	Smith	Jeanine	K	1968-02-12	1989-01-05	615	324-7883	105
<input type="checkbox"/>	Edit Copy Delete	107	Mr.	Diante	Jorge	D	1974-08-21	1994-07-02	615	890-4567	105
<input type="checkbox"/>	Edit Copy Delete	108	Mr.	Wiesenbach	Paul	R	1966-02-14	1992-11-18	615	897-4358	NULL
<input type="checkbox"/>	Edit Copy Delete	109	Mr.	Smith	George	K	1961-06-18	1989-04-14	901	504-3339	108
<input type="checkbox"/>	Edit Copy Delete	110	Mrs.	Genkazi	Leighla	W	1970-05-19	1990-12-01	901	569-0093	108
<input type="checkbox"/>	Edit Copy Delete	111	Mr.	Washington	Rupert	E	1966-01-03	1993-06-21	615	890-4925	105
<input type="checkbox"/>	Edit Copy Delete	112	Mr.	Johnson	Edward	E	1961-05-14	1983-12-01	615	898-4387	100
<input type="checkbox"/>	Edit Copy Delete	113	Ms.	Smythe	Melanie	P	1970-09-15	1999-05-11	615	324-9006	105
<input type="checkbox"/>	Edit Copy Delete	114	Ms.	Brandon	Marie	G	1956-11-02	1979-11-15	901	882-0845	108
<input type="checkbox"/>	Edit Copy Delete	115	Mrs.	Saranda	Hermine	R	1972-07-25	1993-04-23	615	324-5505	105
<input type="checkbox"/>	Edit Copy Delete	116	Mr.	Smith	George	A	1965-11-08	1988-12-10	615	890-2984	108

☐ Check all
 With selected: Edit Copy Delete Export

☐ Show all
 Number of rows: 25
 Filter rows: Search this table
 Sort by key: None

Console results operations

5.

UPDATE employee

SET EMP_MGR_NUM = 100

WHERE EMP_NUM = 108;

phpMyAdmin

Server: 127.0.0.1 » Database: sit103 » Table: EMPLOYEE

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Recent Favorites

Show query box

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

SELECT * FROM EMPLOYEE WHERE EMP_NUM = 108;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	EMP_NUM	EMP_TITLE	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_DOB	EMP_HIRE_DATE	EMP_AREACODE	EMP_PHONE	EMP_MGR_NUM
<input type="checkbox"/>	108	Mr.	Wiesenbach	Paul	R	1966-02-14	1992-11-18	615	897-4358	100

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table

6.

DELETE FROM employee

WHERE EMP_MGR_NUM = 108;

phpMyAdmin

Server: 127.0.0.1 » Database: sit103 » Table: EMPLOYEE

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 12 (13 total, Query took 0.0004 seconds)

SELECT * FROM EMPLOYEE;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

				EMP_NUM	EMP_TITLE	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_DOB	EMP_HIRE_DATE	EMP_AREACODE	EMP_PHONE	EMP_MGR_NUM
<input type="checkbox"/>	Edit	Copy	Delete	100	Mr.	Kolmycz	George	D	1942-06-15	1985-03-15	615	324-5456	NULL
<input type="checkbox"/>	Edit	Copy	Delete	101	Ms.	Lewis	Rhonda	G	1965-03-19	1986-04-25	615	324-4472	100
<input type="checkbox"/>	Edit	Copy	Delete	102	Mr.	Vandam	Rhett	NULL	1958-11-14	1990-12-20	901	675-8993	100
<input type="checkbox"/>	Edit	Copy	Delete	103	Ms.	Jones	Anne	M	1974-10-16	1994-08-28	615	898-3456	100
<input type="checkbox"/>	Edit	Copy	Delete	104	Mr.	Lange	John	P	1971-11-08	1994-10-20	901	504-4430	NULL
<input type="checkbox"/>	Edit	Copy	Delete	105	Mr.	Williams	Robert	D	1975-03-14	1998-11-08	615	890-3220	NULL
<input type="checkbox"/>	Edit	Copy	Delete	106	Mrs.	Smith	Jeanine	K	1968-02-12	1989-01-05	615	324-7883	105
<input type="checkbox"/>	Edit	Copy	Delete	107	Mr.	Diante	Jorge	D	1974-08-21	1994-07-02	615	890-4567	105
<input type="checkbox"/>	Edit	Copy	Delete	108	Mr.	Wiesenbach	Paul	R	1966-02-14	1992-11-18	615	897-4358	100
<input type="checkbox"/>	Edit	Copy	Delete	111	Mr.	Washington	Rupert	E	1966-01-03	1993-06-21	615	890-4925	105
<input type="checkbox"/>	Edit	Copy	Delete	112	Mr.	Johnson	Edward	E	1961-05-14	1983-12-01	615	898-4387	100
<input type="checkbox"/>	Edit	Copy	Delete	113	Ms.	Smythe	Melanie	P	1970-09-15	1999-05-11	615	324-9006	105
<input type="checkbox"/>	Edit	Copy	Delete	115	Mrs.	Saranda	Hermine	R	1972-07-25	1993-04-23	615	324-5505	105

Check all | With selected: Edit Copy Delete Export

Console