

# Data & Information Management

## Assignment 7.1P

### 1. Write an SQL statement create the EMPLOYEE table

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

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

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

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)	NO		NULL	
EMP_DOB	date	YES		NULL	
EMP_HIRE_DATE	date	YES		NULL	
EMP_AREACODE	varchar(3)	YES		001	
EMP_PHONE	varchar(8)	YES		NULL	
EMP_MGR	int(11)	YES		NULL	

### 2. Write an SQL statement to change the column name 'EMP\_MGR' to 'EMP\_MGR\_NUM'. [Hint: ALTER TABLE to rename column, discussed in the class].

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
ALTER TABLE employee CHANGE COLUMN EMP_MGR EMP_MGR_NUM INT;
```

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)	NO		NULL	
EMP_DOB	date	YES		NULL	
EMP_HIRE_DATE	date	YES		NULL	
EMP_AREACODE	varchar(3)	YES		001	
EMP_PHONE	varchar(8)	YES		NULL	
EMP_MGR_NUM	int(11)	YES		NULL	

3. Write an SQL statement to ADD FOREIGN KEY CONSTRAINT to EMP\_MGR\_NUM to reference to EMP\_NUM (self-reference). This column indicates who is the manager (EMP\_NUM of the manager) of an employee. [Hint: ALTER TABLE to add constraint, discussed in the class]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
ALTER TABLE EMPLOYEE ADD CONSTRAINT FK_EMP_MGR FOREIGN KEY (EMP_MGR_NUM) REFERENCES EMPLOYEE(EMP_NUM);
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0006 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:

Extra options

COLUMN_NAME	CONSTRAINT_NAME	REFERENCED_COLUMN_NAME	REFERENCED_TABLE_NAME
EMP_NUM	PRIMARY	NULL	NULL
EMP_MGR_NUM	FK_EMP_MGR	EMP_NUM	employee
employeeName	PRIMARY	NULL	NULL

4. Write SQL statements to insert the following records in the EMPLOYEE TABLE.

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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.', 'Kolesycz', 'George', 'D', '15-JUN-1942', '15-MAR-1985', '615', '324-5456', NULL);
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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', '19-MAR-1965', '25-APR-1990', '615', '324-6472', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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.', 'Vanden', 'Rhett', 'NULL', '14-NOV-1958', '28-DEC-1990', '601', '675-8993', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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', '16-OCT-1974', '28-AUG-1994', '615', '898-3456', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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', '08-NOV-1971', '28-OCT-1994', '601', '584-6430', '105');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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.', 'Mullins', 'Robert', 'D', '14-MAR-1975', '08-NOV-1990', '615', '324-7890', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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', 'Mr.', 'Smith', 'Stanley', 'K', '12-FEB-1968', '05-JAN-1990', '615', '324-7890', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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.', 'Dawson', 'George', 'D', '23-AUG-1974', '02-JUL-1990', '615', '324-7890', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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.', 'Mullins', 'Paul', 'K', '14-FEB-1966', '18-NOV-1990', '615', '324-7890', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
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', '18-JUN-1961', '14-APR-1988', '601', '584-5330', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0002 seconds.)

```
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', 'Mr.', 'Gonzales', 'Leighla', 'M', '09-MAY-1976', '01-DEC-1990', '601', '584-5455', '100');
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

✓ 1 row inserted. (Query took 0.0002 seconds.)

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','83-JAN-1966','21-JUN-1993','615','898-4925','105');

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

✓ 1 row inserted. (Query took 0.0003 seconds.)

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','14-MAY-1961','01-DEC-1983','615','898-4387','100');

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

✓ 1 row inserted. (Query took 0.0003 seconds.)

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','15-SEP-1970','11-MAY-1999','615','324-9006','105');

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

✓ 1 row inserted. (Query took 0.0002 seconds.)

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','02-NOV-1986','15-NOV-1979','901','882-8845','108');

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

✓ 1 row inserted. (Query took 0.0002 seconds.)

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','25-JUL-1972','23-APR-1993','615','324-5585','105');

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

✓ 1 row inserted. (Query took 0.0002 seconds.)

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','08-NOV-1965','10-DEC-1988','615','898-2984','108');

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

✓ Showing rows 0 - 16 (17 total. Query took 0.0002 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"/>		100	Mr.	Kolmycz	George	D	15-JUN-1942	15-MAR-1988	815	324-5488	NULL
<input type="checkbox"/>		101	Ms.	Lewis	Rhonda	G	19-MAR-1985	25-APR-1989	815	324-4472	100
<input type="checkbox"/>		102	Mr.	Vandam	Rhett	NULL	14-NOV-1988	20-DEC-1990	901	875-8993	100
<input type="checkbox"/>		103	Ms.	Jones	Anne	M	18-OCT-1974	28-AUG-1994	815	898-3488	100
<input type="checkbox"/>		104	Mr.	Lange	John	P	06-NOV-1971	20-OCT-1994	901	504-4430	105
<input type="checkbox"/>		105	Mr.	Williams	Robert	D	14-MAR-1975	08-NOV-1988	815	890-3220	NULL
<input type="checkbox"/>		106	Mrs.	Smith	Jeanine	K	12-FEB-1968	05-JAN-1989	815	324-7883	105
<input type="checkbox"/>		107	Mr.	Dizante	Jorge	D	21-AUG-1974	02-JUL-1994	815	880-4587	105
<input type="checkbox"/>		108	Mr.	Wesenbach	Paul	R	14-FEB-1960	18-NOV-1992	815	897-4358	NULL
<input type="checkbox"/>		109	Mr.	Smith	George	K	18-JUN-1961	14-APR-1989	901	604-3339	108
<input type="checkbox"/>		110	Mrs.	Genkazi	Leighla	W	19-MAY-1970	01-DEC-1990	901	500-0093	108
<input type="checkbox"/>		111	Mr.	Washington	Rupert	E	03-JAN-1966	21-JUN-1993	815	890-4925	105
<input type="checkbox"/>		112	Mr.	Johnson	Edward	E	14-MAY-1961	01-DEC-1983	815	898-4387	100
<input type="checkbox"/>		113	Ms.	Smythe	Melanie	P	15-SEP-1970	11-MAY-1999	815	324-9006	105
<input type="checkbox"/>		114	Ms.	Brandon	Marie	G	02-NOV-1986	15-NOV-1979	901	882-8845	108
<input type="checkbox"/>		115	Mrs.	Saranda	Hermine	R	25-JUL-1972	23-APR-1993	815	324-5585	105
<input type="checkbox"/>		116	Mr.	Smith	George	A	08-NOV-1965	10-DEC-1988	815	898-2984	108



5. Write an SQL statement to set the manager of Paul Wiesenbach (EMP\_NUM = 108) as George Kolmycz (EMP\_NUM = 100).

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE employee SET EMP_MGR_NUM = 100 WHERE EMP_NUM = 108;
```

Showing rows 0 - 0 (1 total, Query took 0.0004 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"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	108	Mr.	Wiesenbach	Paul	R	14-FEB-1966	18-NOV-1992	615	897-4358	100

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

6. Write an SQL statement to delete records of all employees managed by Paul Wiesenbach (EMP\_NUM = 108).

✓ 4 rows deleted. (Query took 0.0023 seconds.)

```
DELETE FROM employee WHERE EMP_MGR_NUM = 108;
```

Showing rows 0 - 12 (13 total, Query took 0.0003 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 <input type="checkbox"/> Copy <input type="checkbox"/> Delete	100	Mr.	Kolmycz	George	D	15-JUN-1942	15-MAR-1985	615	324-5456	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	101	Ms.	Lewis	Rhonda	G	18-MAR-1965	25-APR-1988	615	324-4472	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	102	Mr.	Vandam	Rhett	NULL	14-NOV-1958	20-DEC-1990	901	875-8993	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	103	Ms.	Jones	Anne	M	16-OCT-1974	28-AUG-1994	615	898-3456	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	104	Mr.	Lange	John	P	08-NOV-1971	20-OCT-1994	901	504-4430	105
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	105	Mr.	Williams	Robert	D	14-MAR-1975	08-NOV-1998	615	890-3220	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	106	Mrs.	Smith	Jeanine	K	12-FEB-1968	05-JAN-1989	615	324-7883	105
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	107	Mr.	Diante	Jorge	D	21-AUG-1974	02-JUL-1994	615	890-4567	105
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	108	Mr.	Wiesenbach	Paul	R	14-FEB-1966	18-NOV-1992	615	897-4358	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	111	Mr.	Washington	Rupert	E	03-JAN-1968	21-JUN-1993	615	890-4925	105
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	112	Mr.	Johnson	Edward	E	14-MAY-1961	01-DEC-1983	615	898-4387	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	113	Ms.	Smythe	Melanie	P	15-SEP-1970	11-MAY-1999	615	324-9006	105
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	115	Mrs.	Saranda	Hermine	R	25-JUL-1972	23-APR-1993	615	324-5505	105

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export