

7. Data Types

CHAR(11) - every entry in this column must have exactly 11 characters

DATE - date

DATETIME - exact date in time

TIME - no date

INT - whole numbers

DECIMAL (4,2) - precision, scale (max number of digits, number of digits after decimal point)

FLOAT(24) - specify the maximum number of digits

BIT - 1/0 often taken to represent TRUE or FALSE

```
1 DROP TABLE IF EXISTS personnel;  
2  
3 CREATE TABLE personnel (  
4     first_name VARCHAR(20),  
5     last_name VARCHAR(20),  
6     notes VARCHAR(max),  
7     phone_number CHAR(11),  
8     birthdate DATE,  
9     first_shift_start DATETIME,  
10    lunch_break TIME,  
11    number_of_awards INT,  
12    hourly_rate DECIMAL(4,2),  
13    height_metres FLOAT(24),  
14    is_full_time BIT  
15 )
```

INSERTING DATA - numbers don't always need ''

```
17 INSERT INTO personnel (  
18     first_name, last_name, notes, phone_number,  
19     birthdate, first_shift_start, lunch_break, number_of_awards,  
20     hourly_rate, height_metres,  
21     is_full_time  
22 ) VALUES (  
23     'Joe', --VARCHAR  
24     'Bloggs', --VARCHAR  
25     'An excellent employee', --VARCHAR  
26     '07123456789', --CHAR  
27     '1990-01-23', --DATE  
28     '2020-04-01 09:00:00', --DATETIME  
29     '13:00:00', --TIME  
30     4, --INT  
31     12.75, --DECIMAL  
32     1.77e1, --FLOAT  
33     1 --BIT  
34 );
```

No issues found Lnt: 33 Ch: 12