WHAT IS CLAIMED IS:

1. A method

for executing, by a data processing system, one or more portions of a program that specifies operations, with the program being written in a first language, including:

receiving, from a device, a translation file that is distinct from the program, wherein the translation file includes one or more instructions for translating the first language of the program into a second language of a database, wherein the translation file specifies one or more operations in the first language of the program that are supported by the database and further specifies the one or more supported operations in the second language of the database;

determining, from the translation file, one or more of the operations of the program that are unsupported by the database;

transforming the one or more of the operations determined that are written in the first language of the program in preparation for execution, with the one or more of the operations transformed being unsupported by the database;

determining, from the translation file, one or more of the operations of the program that are supported by the database; and

for the one or more of the operations that are supported by the database:

translating, using the translation file, a portion of the program representing the one or more of the operations that are supported by the database into the second language of the database;

transmitting, from the data processing system to the database, the translated portion of the program; and

receiving, by the data processing system and from the database, data resulting from execution, within the database, of the translated portion of the program representing the one or more of the operations that are supported by the database; and

in accordance with the received data resulting from execution, within the database, of the translated portion of the program representing the one or more of the operations that are supported by the database, executing, by the data processing system, the one or more of the transformed operations of the program that are unsupported by the database.

2. The method of claim 1, including performing, by the data processing system, one or more additional operations on the data received from the database and on data resulting from

execution of the one or more of the transformed operations that are unsupported by the database.

3. The method of claim 1, wherein the program includes an executable dataflow graph having components representing the operations connected by links representing flows of data between the operations.

4. The method of claim 1, wherein translating the portion of the program representing the one or more of the operations that are supported by the database includes generating one or more queries to the database in the language of the database for performing, within the database, the one or more of the operations.

5. The method of claim 4, wherein at least one of the operations of the program includes a query operation, the method including:

removing, from the program, the one or more operations that are supported by the database; and

inserting, into the query operation, the one or more queries to the database in the language of the database.

6. The method of claim 1, wherein determining the one or more of the operations that are supported by the database includes applying one or more pattern matching rules to the one or more operations in the translation file specified in the language of the program.

7. The method of claim 1, wherein the translation file accounts for at least one of a data type, a meaning of an operator, a meaning of a function, or an intended result of an operation, of the one or more supported operations in the language of the database.

8. The method of claim 1, wherein the translation file is not encoded in the program.

9. The method of claim 1, including receiving, from the program, an indication of the language of the database.

10. The method of claim 1, wherein the language of the program includes a data manipulation language, and wherein the language of the database includes a structured query language.

11. The method of claim 1, wherein the translation file includes one or more instructions for translating the language of the program into a language of a plurality of databases including the language of the database.

12. The method of claim 1, wherein the device comprises a computing device or memory, or both.

13. The method of claim 1, wherein receiving the translation file comprises accessing the translation file.

14. The method of claim 1, wherein the translation file is extensible.

15. The method of claim 1, wherein the first language is an interpretable language, and wherein transforming includes: interpreting the one or more of the operation of the program written in first language and unsupported by the database.

16. A system, including:

one or more processors; and

one or more storage devices storing instructions which, when executed by the one or more processors, cause the one or more processors to perform operations for executing one or more portions of a program that specifies operations, with the program being written in a first language, the operations of the method of any one of claims 1 to 15.

17. A non-transitory computer-readable storage medium storing instructions for causing a computing system to execute one or more portions of a program that specifies operations, with the program being written in a first language, the instructions configured to cause the computing system to perform operations of the method of any one of claims 1 to 15.