

Database Programming with SQL

* 1. : Relational Database Technology Practice Activities

# Objectives

* + - Define and give an example of a relational database
    - Identify table-key terms, including row, column, field, primary key, and foreign key
    - Relate the importance of databases to everyday life

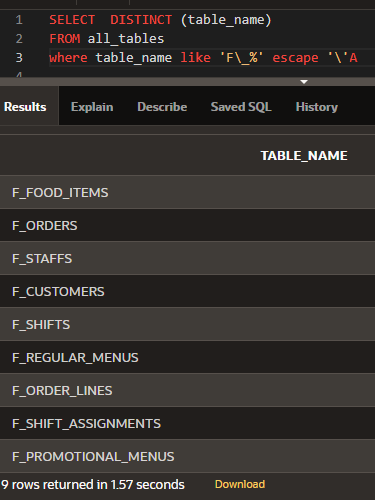
# Vocabulary

Identify the vocabulary word for each definition below.

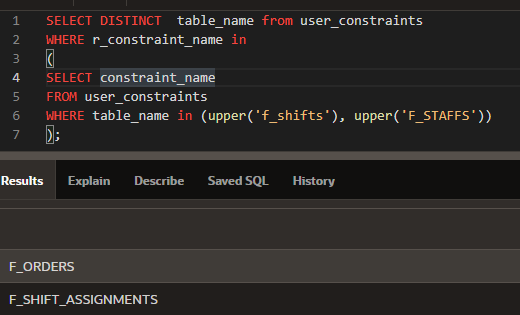
|  |  |
| --- | --- |
| row | An entry in a table, consisting of values for each appropriate column. |
| **primary key** | The set of mandatory columns within a table that is used to enforce uniqueness of rows, and that is normally the most frequent means by which rows are accessed. |
| **Table** | An arrangement of data in rows and columns. |
| **foreign key** | A column or set of columns that refers to a primary key in the same table or another table. |
| **relational dB** | Collections of objects or relations, set of operators to act on those relations, and data integrity for accuracy and consistency |
| **field** | Intersection of a row and column |
| **data manipulation language** | Used to modify the table data by entering, changing, or removing rows |
| **data definition language** | Creates, changes, and removes data structures from the database |
| **transaction control language** | Used to manage the changes made by DML statements |
| **data control language** | Used to give or remove access rights to the database and the structures within it |

# Try It / Solve It

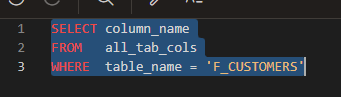
1. The Global Fast Foods database consists of how many tables? 9 tables



1. How is the F\_SHIFTS table related to the F\_STAFFS table? Через **F\_SHIFT\_ASSIGNMENTS.**

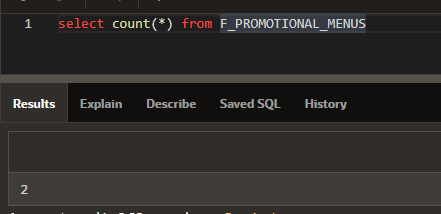


1. What are the names of the columns in the F\_CUSTOMERS table?



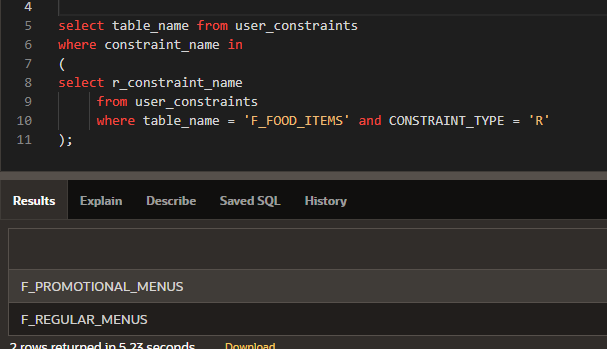
|  |
| --- |
| ID |
| FIRST\_NAME |
| LAST\_NAME |
| ADDRESS |
| CITY |
| STATE |
| ZIP |
| PHONE\_NUMBER |

1. How many rows of data have been entered in the F\_PROMOTIONAL\_MENUS table?



2 rows

1. In the F\_FOOD\_ITEMS table, column is a foreign-key column. What table and column is this key referencing?



**«REGULAR\_CODE» на «CODE» в «F\_REGULAR\_MENUS»**

**"PROMO\_CODE" на "CODE" в "F\_PROMOTIONAL\_MENUS"**

1. List the primary key to foreign key relationships required to go from the F\_SHIFTS table to the F\_REGULAR\_MENUS table.

F\_SFT\_CODE\_PK -> F\_SAT\_CODE\_FK

F\_SAT\_ID\_FK -> F\_STF\_ID\_PK

F\_STF\_ID\_PK -> F\_ODR\_STAFF\_ID\_FK

F\_ODR\_ORDER\_NUMBER\_PK -> F\_OLE\_ORDER\_NUMBER\_FK

F\_OLE\_FOOD\_ITEM\_NUMBER\_FK -> F\_FIM\_FOOD\_ITEM\_NUMBER\_PK

F\_FIM\_REGULAR\_CODE\_FK -> F\_RMU\_CODE\_PK

1. Which table(s) contains null values?

F\_FOOD\_ITEMS, F\_STAFF

