

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.

|  |  |
| --- | --- |
| Строка | An entry in a table, consisting of values for each appropriate column. |
| Первичный ключ | 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. |
| Таблица | An arrangement of data in rows and columns. |
| Внешний ключ | A column or set of columns that refers to a primary key in the same table or another table. |
| Реляционная б.д. | Collections of objects or relations, set of operators to act on those relations, and data integrity for accuracy and consistency |
| Поле | Intersection of a row and column |
| DML | Used to modify the table data by entering, changing, or removing rows |
| DDL | 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
2. How is the F\_SHIFTS table related to the F\_STAFFS table?

SELECT DISTINCT table\_name from user\_constraints

WHERE r\_constraint\_name in

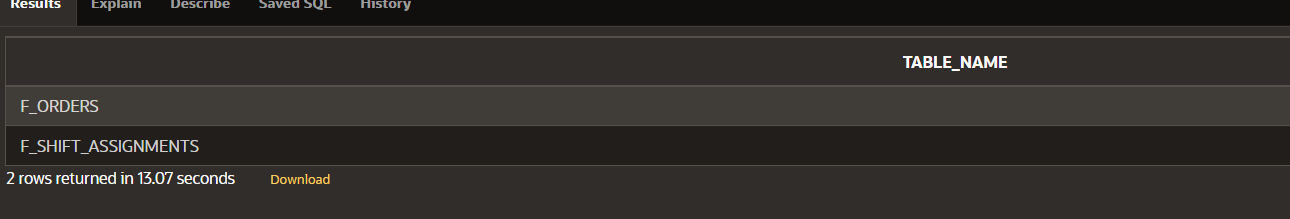
(

SELECT constraint\_name

FROM user\_constraints

WHERE table\_name in (upper('f\_shifts'), upper('F\_STAFFS'))

);



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

SELECT column\_name

FROM all\_tab\_cols

WHERE table\_name = 'F\_CUSTOMERS'COLUMN\_NAME:

ID

FIRST\_NAME

LAST\_NAME

ADDRESS

CITY

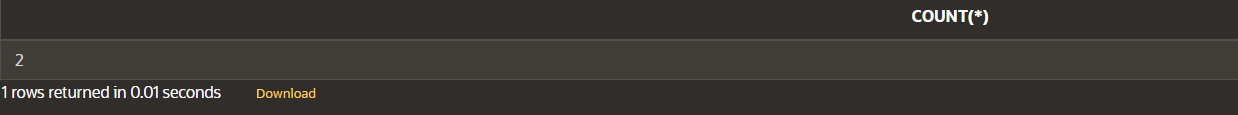
STATE

ZIP

PHONE\_NUMBER

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

select count(\*) from F\_PROMOTIONAL\_MENUS;

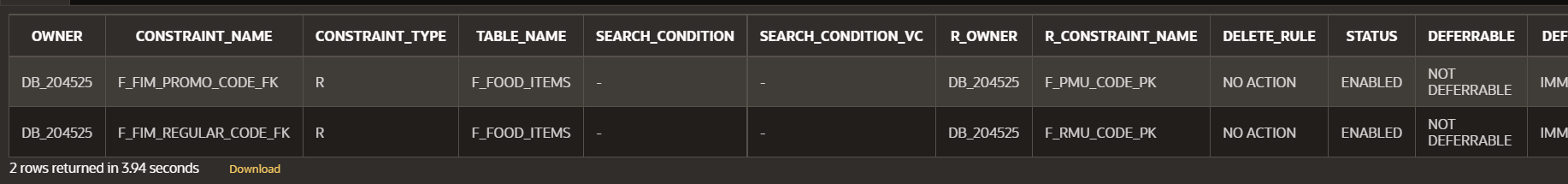


1. In the F\_FOOD\_ITEMS table, column is a foreign-key column. What table and column is this key referencing?

select \*

from user\_constraints

where table\_name = 'F\_FOOD\_ITEMS' and CONSTRAINT\_TYPE = 'R';



select table\_name from user\_constraints

where constraint\_name in

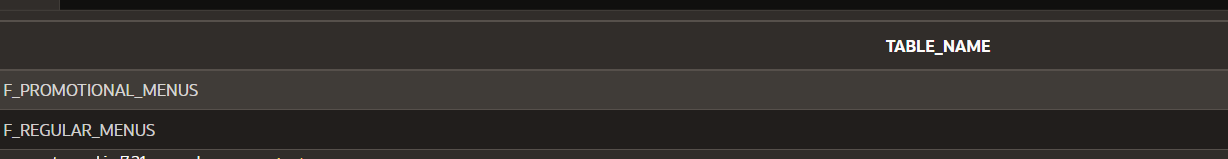
(

select r\_constraint\_name

from user\_constraints

where table\_name = 'F\_FOOD\_ITEMS' and CONSTRAINT\_TYPE = 'R'

);



"REGULAR\_CODE" to "CODE" in "F\_REGULAR\_MENUS"

"PROMO\_CODE" to "CODE" in "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.

**ALTER TABLE  "F\_REGULAR\_MENUS"  ADD CONSTRAINT "F\_RMU\_SHIFT\_CODE\_FK" FOREIGN KEY ("SHIFT\_CODE")  REFERENCES  "F\_SHIFTS" ("CODE")  ENABLE;**

1. Which table(s) contains null values? 10

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