

14-1: Intro to Constraints; NOT NULL and UNIQUE Constraints

Vocabulary

1. Unique constraint
2. Not null constraint
3. PRIMARY KEY
4. CHECK Constraint
5. REFERENCES
6. UNIQUE Constraint
7. FOREIGN KEY
8. Table Level Constraint
9. constraint
10. Column Level Constraint

Try It / Solve It

1.

Database can be as reliable as the data in it, and database rules are implemented as Constraint to maintain data integrity. For example these constraints may prohibit deletion of a table or some row when insertion, updation or deletion is executed.

2.

Constraints referring to more than one column are defined at Table Level

- NOT NULL constraint must be defined at column level
- If word CONSTRAINT is used in a CREATE TABLE statement, I must specify constraint name.

3. If a constraint is violated in a SQL statement execution, it is easy to identify the cause with user-named constraints.

- It is easy to alter names/

4.

Global Fast Foods global_locations Table						
NAME	TYPE	Data Type	LENGTH	PRECISION	SCALE	NULLABLE
id	pk	NUMBER	5	0		No
name		VARCHAR2	50			
date_opened		DATE				No
address		VARCHAR2	50			No
city		VARCHAR2	30			No
zip_postal_code		VARCHAR2	10			
phone		VARCHAR2	20			
email	uk	VARCHAR2	75			
manager_id		NUMBER	6	0		
emergency_contact		VARCHAR2	20			

5.

Global Fast Foods global_locations Table						
NAME	TYPE	DataType	LENGTH	PRECISION	SCALE	NULLABLE
id	pk	NUMBER	5	0		No
name		VARCHAR2	50			yes
date_opened		DATE				No
address		VARCHAR2	50			No
city		VARCHAR2	30			No
zip_postal_code		VARCHAR2	10			yes
phone		VARCHAR2	20			yes
email	uk	VARCHAR2	75			yes
manager_id		NUMBER	6	0		yes
emergency_contact		VARCHAR2	20			yes

6.

Create table f_global_locations

(Id number(6,0) constraint f_gln_id_pk Primary Key,

Name varchar2(50),

date_opened date constraint f_gln_date_nn NOT NULL ENABLE, Adress varchar2(50)

constraint f_gln_adress_nn NOT NULL ENABLE,\ City varchar2(30) constraint

f_gln_city_nn NOT NULL ENABLE, zip_postal_code varchar2(10),

Phone varchar2(20) ,

Email varchar2(75) constraint f_gln_cemail_uk UNIQUE,

Manager_id number(6,0),

emergency_contact varchar2(20));

7.

8.

Describe f_global_locations

Column Name	Data Type	Nullable	Default	Primary Key
ID	NUMBER(5,0)	No	-	1
NAME	VARCHAR2(50)	Yes	-	-
DATE_OPENED	DATE	No	-	-
ADRESS	VARCHAR2(50)	No	-	-
CITY	VARCHAR2(30)	No	-	-
ZIP_POSTAL_CODE	VARCHAR2(10)	Yes	-	-
PHONE	VARCHAR2(20)	Yes	-	-
EMAIL	VARCHAR2(75)	Yes	-	-
MANAGER_ID	NUMBER(6,0)	Yes	-	-
EMERGENCY_CONTACT	VARCHAR2(20)	Yes	-	-

9.

Create table f_global_locations

(Id number(6,0) constraint f_gln_id_pk Primary Key,

Name varchar2(50),

date_opened date constraint f_gln_date_nn NOT NULL ENABLE, Adress varchar2(50)

constraint f_gln_adress_nn NOT NULL ENABLE,\ City varchar2(30) constraint

f_gln_city_nn NOT NULL ENABLE, zip_postal_code varchar2(10),

Phone varchar2(20) ,

Email varchar2(75) ,

Manager_id number(6,0),

emergency_contact varchar2(20),

constraint f_gln_cemail_uk UNIQUE(email));