

Cleaning Data with SQL Cheat Sheet by datamansam via cheatography.com/139410/cs/32044/

Regular Expressions \d A digit Any item in brackets ? previous character 0 or 1 times Previous character 1 or more times Previous character 0 or more times

Identifying Missing Data		
Missing Completely at Random	Missing Not at Random	
SELECT * FROM restau- rant_inspection WHERE score IS NULL;	SELECT inspectio- n_type, COUNT(*) as count FROM restauran- t_inspection WHERE score IS NULL	
SELECT COUNT(*) FROM restau- rant_inspection WHERE score IS NULL;	GROUP BY inspection_type ORDER BY count D	

Replacing null values with an average

UPDATE TABLE Patient SET Income = (SELECT avg(Income) FROM Patient) WHERE Income IS NULL;

Dropping Values where a column is null

SELECT count(*) FROM Patient WHERE Weight IS NULL;

Dealing with Duplicates

WITH DuplicateWithNumber AS (SELECT Column1, Column2 , row nu mber() OVER (PARTITION BY Column1, Column2 ORDER BY Column3) AS NthApp earance FROM YourTa bleName DELETE FROM Duplic ate Wit hNumber WHERE NthApp ear anc e> 1

Cleaning with Case

UPDATE Project..housing SET SoldAs Vac ant =CASE WHEN SoldAs Vacant = 'Y' THEN 'Yes' WHEN SoldAs Vacant = 'N' THEN 'No' ELSE SoldAs Vacant

Replacing missing values with

SELECT name, COALES-COALESCE() CE(score, -1), inspection_type FROM restauranfunctiin substitutes null t_inspection valuees

SQL Set Operations

EXCEPT/MINUS INTERSECT UNION the rows that Return the rows e rows that are found in are found in that are one relation but both found in not the other. either relations relation.

Note that input relations must have the same number of columns and compatible data types for the respective columns.

Detecting out of range values

SELECT * FROM series WHERE rating NOT BETWEEN 0 AND SELECT * FROM series WHERE rating < 0 OR rating > 10

Replicate: Repeats string x no of times

REPLICATE (string, integer) REPLIC ATE ('0', 9 - LEN(re gis tra tio n_c ode))

Checking if a value is a website

select when email LIKE '%.com' then email else null end AS email from pensio n_funds

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String Operations

Handy Numeric Functions		
IS NUMERIC	Returns true if the expression has a value, false if not	
CONVERT	Converts a character string into a number	SELECT CONVER T(int, 25.65);
TRUNCATE	n truncated to d decimal places. If you skip d, then n is truncated to 0 decimal places. If d is a negative number, the function truncates the number n to d digits left to the decimal point.	SELECT TRUNCA TE(- 123.45- 67,2); 100

Column values must translate to type to

ALTER TABLE	tableName
ALTER COLUMN	columnName
TYPE smallint	USING columnName::-
	smallint

```
-- SUBSTR
  syntax is:
 SUBSTR$tring, starting
character position, # of
characters):
SELECT incidn t_num,
             date,
              SUB STR (date, 4,
2) AS day
  FROM tutori al.s f_ cri me_ -
inc ide nts _20 14_01
# Extracting date and time
specif ically from a column
SELECT incidn t num,
              date,
              LEF T(date, 10) AS
cleane d date,
             RIG HT ( date, 17)
AS cleane d time
  FROM tutori al.s f_ cri me_ -
inc ide nts 20 14 01
# TRIM, to remove characters
from the beginning and end of a
string.
SELECT location,
             TRI M(both '()'
FROM location)
  FROM tutori al.s f_ cri me_ -
inc ide nts _20 14_01
# POSITION allows you to specify
a substring,
then returns a numerical value
equal to the
character number (counting from
left) where that
substring first appears in the
target string.
SELECT incidn t num,
```

```
String Operations (cont)
               des cript,
               POS ITI ON('A' IN
descript) AS a_position
  FROM tutori al.s f_ cri me_ -
inc ide nts 20 14 01
# COALESCE can replace the null
values
SELECT incidn t_num,
              des cript,
              COA LES CE( des -
cript, 'No Descri ption')
 FROM tutori al.s f cri me -
inc ide nts _cl eandate
 ORDER BY descript DESC
Left for time
Right for date
Trim to remove chars at beginning and end
Position to return the location of a
```

character!

COALESCE to replace the nulls!

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