Cheatography

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

Regular Expressions

\d	A digit
0	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 Not at Random Missing Completely at Random SELECT * SELECT inspectio-FROM restaun_type, COUNT(*) as rant_inspection count FROM restauran-WHERE score IS t_inspection WHERE NULL; score IS NULL SELECT GROUP BY inspectio-COUNT(*) n_type ORDER BY FROM restaucount D rant_inspection WHERE score IS NULL;

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

Not published yet.

Page 2 of 2.

Last updated 30th September, 2022.

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

```
Replacing missing values with<br/>COALESCE()TheSELECT name, COALES-<br/>COALESCE()COALESCE()CE(score, -1), inspectio-<br/>n_type FROM restauran-<br/>tutes nulltutes nulln_type FROM restauran-<br/>tinspectionvalueesvalue
```



By datamansam

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SQL Set Operations

EXCEPT/MINUS	INTERSECT	UNION
Return the rows	the rows that	e rows
that are found in	are found in	that are
one relation but	both	found in
not the other.	relations	either
		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
10
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
   case
      when email LIKE '%.com'
then email
      else null
   end AS email
from pensio n_funds
```

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IS Returns true if the NUMERIC expression has a numeric value, false if not CONVERT Converts a character string into a number CONVER T(int, 25.65); TRUNCATE n truncated to d SELECT decimal places. TRUNCA If you skip d, TE(- then n is 123.45- truncated to 0 67,2); decimal places. 100 If d is a negative number, the function truncates the number n to d digits left to the decimal point.	Handy Numeric Functions		
character string into a numberCONVER T(int, 25.65);TRUNCATEn truncated to d decimal places.SELECT TRUNCA If you skip d, TE(- then n is 123.45- truncated to 0 decimal places.TRUNCA 100 16 d is a negative number, the function truncates the number n to d digits left to the decimal point.		expression has a	
decimal places. TRUNCA If you skip d, TE(- then n is 123.45- truncated to 0 67,2); decimal places. 100 If d is a negative number, the function truncates the number n to d digits left to the decimal point.	CONVERT	character string	CONVER T(int,
Column values must translate to type to	TRUNCATE	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	TRUNCA TE(- 123.45- 67,2);
atond	Column values must translate to type to		

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



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String Operations

```
-- 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,
```

Not published yet. Last updated 30th September, 2022. Page 3 of 2.

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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