

SQL OPERATORS CHEAT SHEET

SQL Commands	Purpose	Example (TRAKiT Context)
SELECT	To retrieve information from one or more tables	select PERMIT_NO, PERMITTYPE from Permit_Main
ORDER BY	Used to sort retrieved data	select PERMIT_NO, PERMITTYPE from Permit_Main order by PERMITTYPE
WHERE	Used to specify 1 or more search conditions	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE='Commercial';
BETWEEN	Allows for a range of values	select PERMIT_NO from Permit_Main where applied between '1/1/03' and '12/31/03';
AND	Allows for the combining of WHERE clauses	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE='Commercial' and STATUS = 'Approved';
OR	Allows for the combining of WHERE clauses	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE='Commercial' or PERMITTYPE = 'Demolition';
IN	Allows for the combining of WHERE clauses	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE in ('Commercial','Demolition');
JOIN	To join together two or more tables where there is a corresponding row in each table	select Permit_Inspections.PERMIT_NO,SITE_ADDR,RESULT INSPECTIONTYPE,COMPLETED_DATE from Permit_Inspections left outer join Permit_Main on Permit_Inspections.PERMIT_NO = Permit_Main.PERMIT_NO
COUNT	It counts items based on criteria you choose	select count (*) from Permit_Inspections;
SUM	Used to return the sum (total) total of the values in a specified column	select sum (PAID) from Permit_Fees;
YEAR	The Year function () is used to return the year portion of the date field	select year (ISSUED) from Permit_Main;
MONTH	The Month function () is used to return the month portion of the date field	select month (ISSUED) from Permit_Main;
DISTINCT	Used to identify unique values	select distinct PROJECTTYPE from Project_Main order by PROJECTTYPE;
GROUP BY	Group data based on a specific field or fields	select PERMITTYPE, count (PERMITTYPE) from Permit_Main group by PERMITTYPE;

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Operator	Meaning	Example (TRAKiT Context)
=	Equality	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE = 'Commercial' (Includes only commercial permit types)
< >	Nonequality	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE <> 'Commercial' (Excludes commercial permit types)
! =	Nonequality	select PERMIT_NO, PERMITTYPE from Permit_Main where PERMITTYPE != 'Commercial' (Excludes commercial permit types)
<	Less than	select JOBVALUE from Permit_Main where JOBVALUE < 500 (Includes records with job value less than 500)
< =	Less than or equal to	select JOBVALUE from Permit_Main where JOBVALUE < = 500 (Includes records with job value 500 and under)
! <	Not less than	select JOBVALUE from Permit_Main where JOBVALUE ! < 500 (Includes records with job value 500 and over)
>	Greater than	select JOBVALUE from Permit_Main where JOBVALUE > 500 (Includes records with job value greater than 500)
> =	Greater than or equal to	select JOBVALUE from Permit_Main where JOBVALUE > = 500 (Includes records with job value 500 and over)
! >	No greater than	select JOBVALUE from Permit_Main where JOBVALUE ! > 500 (Excludes records with job value over 500)
Between	Between 2 specified values	select PERMIT_NO from Permit_Main where applied between '1/1/03' and '12/31/03';
Is Null	Is a NULL value	select completed_date from Permit_Inspections where COMPLETED_DATE is null
Is Not Null	Is not a NULL value	select completed_date from Permit_Inspections where COMPLETED_DATE is not null
As	Used to assign an alternative name for a field or value (Alias)	select ADDRESS1 as OWNER_ADDR1 from Permit_People where NAMETYPE = 'OWNER';