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| **Command** | **Syntax** | **Example** |
| SELECT | SELECT column1, column2, ... FROM table\_name; | SELECT city FROM placeofinterest; |
| WHERE | SELECT column1, column2, ...FROM table\_name WHERE condition; | SELECT \* FROM placeofinterest WHERE city == 'Rome' ; |
| COUNT | SELECT COUNT \* FROM table\_name ; | SELECT COUNT(country) FROM placeofinterest WHERE country='Canada'; |
| DISTINCT | SELECT DISTINCT columnname FROM table\_name; | SELECT DISTINCT country FROM placeofinterest WHERE type='historical'; |
| LIMIT | SELECT \* FROM table\_name LIMIT number; | SELECT \* FROM placeofinterest WHERE airport="pearson" LIMIT 5; |
| INSERT | INSERT INTO table\_name (column1,column2,column3...) VALUES(value1,value2,value3...); | INSERT INTO placeofinterest (name,type,city,country,airport) VALUES('Niagara Waterfalls','Nature','Toronto','Canada','Pearson'); |
| UPDATE | UPDATE table\_name SET[[column1]=[VALUES]] WHERE [condition]; | UPDATE placeofinterest SET name = 'Niagara Falls' WHERE name = "Niagara Waterfalls"; |
| DELETE | DELETE FROM table\_name WHERE [condition]; | DELETE FROM placeofinterest WHERE city IN ('Rome','Vienna'); |

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| **Command** | **Syntax** | **Example** |
| LIKE | SELECT column1, column2, ... FROM table\_name WHERE columnN LIKE pattern; | SELECT f\_name , l\_name FROM employees WHERE address LIKE '%Elgin,IL%'; |
| BETWEEN | SELECT column\_name(s) FROM table\_name WHERE column\_name BETWEEN value1 AND value2; | SELECT \* FROM employees WHERE salary BETWEEN 40000 AND 80000; |
| ORDER BY | SELECT column1, column2, ... FROM table\_name ORDER BY column1, column2, ... ASC|DESC; | SELECT f\_name, l\_name, dep\_id FROM employees ORDER BY dep\_id DESC, l\_name; |
| GROUP BY | SELECT column\_name(s) FROM table\_name WHERE condition GROUP BY column\_name(s) ORDER BY column\_name(s); | SELECT dep\_id, COUNT(\*) FROM employees GROUP BY dep\_id; |

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| COUNT | SELECT COUNT(column\_name) FROM table\_name WHERE condition; | SELECT COUNT(dep\_id) FROM employees; |
| AVG | SELECT AVG(column\_name) FROM table\_name WHERE condition; | SELECT AVG(salary) FROM employees; |
| SUM | SELECT SUM(column\_name) FROM table\_name WHERE condition; | SELECT SUM(salary) FROM employees; |
| MIN | SELECT MIN(column\_name) FROM table\_name WHERE condition; | SELECT MIN(salary) FROM employees; |
| MAX | SELECT MAX(column\_name) FROM table\_name WHERE condition; | SELECT MAX(salary) FROM employees; |
| ROUND | SELECT ROUND(2number, decimals, operation) AS RoundValue; | SELECT ROUND(salary) FROM employees; |
| LENGTH | SELECT LENGTH(column\_name) FROM table; | SELECT LENGTH(f\_name) FROM employees; |
| UCASE | SELECT UCASE(column\_name) FROM table; | SELECT UCASE(f\_name) FROM employees; |
| DISTINCT | SELECT DISTINCT(column\_name) FROM table; | SELECT DISTINCT(UCASE(f\_name)) FROM employees; |
| DAY | SELECT DAY(column\_name) FROM table | SELECT DAY(b\_date) FROM employees where emp\_id = 'E1002'; |
| CURRENT DATE | SELECT (CURRENT DATE - COLUMN) FROM table; | SELECT YEAR(CURRENT DATE - b\_date) As AGE, CURRENT\_DATE, b\_date FROM employees; |
| Subquery | SELECT column\_name [, column\_name ] FROM table1 [, table2 ] WHERE column\_name OPERATOR (SELECT column\_name [, column\_name ] FROM table1 [, table2 ] [WHERE]) | SELECT emp\_id, fmame, lname, salary FROM employees where salary < (SELECT AVG(salary) FROM employees);   SELECT \* FROM ( SELECT emp\_id, f\_name, l\_name, dep\_id FROM employees) AS emp4all;     SELECT \* FROM employees WHERE job\_id IN (SELECT job\_ident FROM jobs); |
| Implicit Inner Join | SELECT column\_name(s) FROM table1, table2 WHERE table1.column\_name = table2.column\_name; | SELECT \* FROM employees, jobs where employees.job\_id = jobs.job\_ident; |
| Implicit Cross Join | SELECT column\_name(s) FROM table1, table2; | SELECT \* FROM employees, jobs; |