Title

SELECT Statement

**FROM Specifies table(s) to be used.**

**WHERE Filters rows.**

**GROUP BY Forms groups of rows with same** **column value.**

**HAVING Filters groups subject to some** **condition.**

**SELECT Specifies which columns are toappear in output.**

**ORDER BY Specifies the order of the output.**

# All Columns, All Rows

**List full details of all staff.** **SELECT staffNo, fName, lName, address,**

**position, sex, DOB, salary, branchNo**

**FROM Staff;**

**Can use \* as an abbreviation for ‘all columns’:**

**SELECT \***

**FROM Staff;**

# Specific Columns, All Rows

**Produce a list of salaries for all staff, showing only staff number, first and last names, and salary.**

**SELECT staffNo, fName, lName, salary**

**FROM Staff;**

# Use of DISTINCT

**List the property numbers of all properties that have been viewed.**

**SELECT propertyNo**

**FROM Viewing;**

# Use of DISTINCT

**Use DISTINCT to eliminate duplicates:**

**SELECT DISTINCT propertyNo**

**FROM Viewing;**

# Calculated Fields

**Produce list of monthly salaries for all staff, showing staff number, first/last name, and salary.**

**SELECT staffNo, fName, lName, salary/12**

**FROM Staff;**

**To name column, use AS clause:**

**SELECT staffNo, fName, lName, salary/12**

**AS monthlySalary**

**FROM Staff;**

# Comparison Search Condition

**List all staff with a salary greater than 10,000.**

**SELECT staffNo, fName, lName, position, salary**

**FROM Staff**

**WHERE salary > 10000;**

# Compound Comparison Search Condition

**List addresses of all branch offices in London or Glasgow.**

**SELECT \***

**FROM Branch**

**WHERE city = ‘London’ OR city = ‘Glasgow’;**

# Range Search Condition

**List all staff with a salary between 20,000 and 30,000.**

**SELECT staffNo, fName, lName, position, salary**

**FROM Staff**

**WHERE salary BETWEEN 20000 AND 30000;**

**BETWEEN does not add much to SQL’s expressive power. Could also write:**

**SELECT staffNo, fName, lName, position, salary**

**FROM Staff**

**WHERE salary>=20000 AND salary <= 30000;**

# Set Membership

**List all managers and supervisors.**

**SELECT staffNo, fName, lName, position**

**FROM Staff**

**WHERE position IN (‘Manager’, ‘Supervisor’);**

# Pattern Matching

**Find all owners with the string ‘Glasgow’ in their address.**

**SELECT ownerNo, fName, lName, address, telNo**

**FROM PrivateOwner**

**WHERE address LIKE ‘%Glasgow%’;**

%g = flast letter

G% =FIRST LETTER