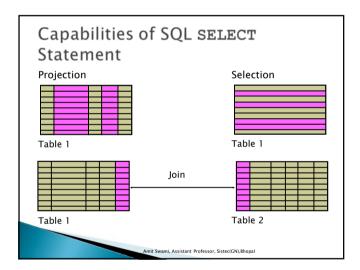
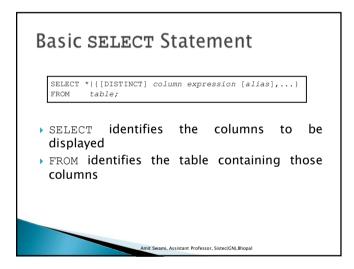
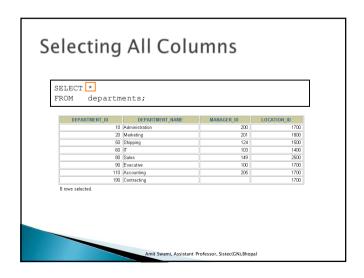
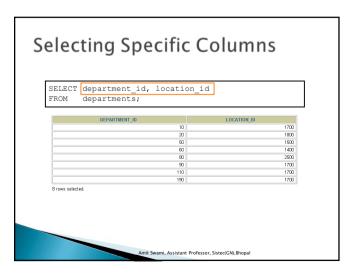


Objectives After completing this , you should be able to do the following: List the capabilities of SQL SELECT statements Execute a basic SELECT statement









Writing SQL Statements

- > SQL statements are not case-sensitive.
- > SQL statements can be on one or more lines.
- Keywords cannot be abbreviated or split across lines.
- Clauses are usually placed on separate lines.
- In SQL Developer, SQL statements can optionally be terminated by a semicolon (;). Semicolons are required if you execute multiple SQL statements.
- In SQL*Plus, you are required to end each SQL statement with a semicolon (;).

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Column Heading Defaults

- > SQL Developer:
 - Default heading alignment: Center
- Default heading display: Uppercase
- ▶ SOL*Plus:
 - Character and Date column headings are leftaligned
 - · Number column headings are right-aligned
 - Default heading display: Uppercase

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Arithmetic Expressions

 Create expressions with number and date data by using arithmetic operators.

Operator	Description	
+	Add	
-	Subtract	
*	Multiply	
1	Divide	

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Using Arithmetic Operators

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Operator Precedence

SELECT last_name, salary, 12*salary+100
FROM employees;

| LAST_NAME | SALARY | 12*SALARY+100 1 Whalen 4400 52900 2 Hartstein 13000 156100 3 Fay 6000 72100

SELECT last_name, salary, 12*(salary+100)
FROM employees;

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Defining a Null Value

- A null is a value that is unavailable, unassigned, unknown, or inapplicable.
- A null is not the same as a zero or a blank

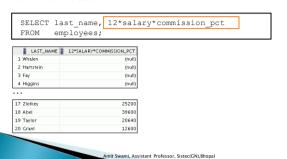
SELECT last_name, job_id, salary, commission_pct FROM employees;

	LAST_NAME		SALARY	COMMISSION_PCT
1	Whalen	AD_ASST	4400	(null)
2	Hartstein	MK_MAN	13000	(null)
3	Fay	MK_REP	6000	(null)
	Zlotkey	SA_MAN	10500	0.2
17		SA_MAN SA_REP	10500 11000	0.2
17	Zlotkey	_		

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Null Values in Arithmetic Expressions

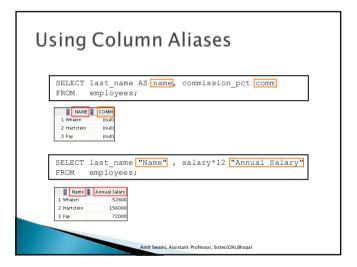
 Arithmetic expressions containing a null value evaluate to null.



Defining a Column Alias

- A column alias:
 - · Renames a column heading
 - Is useful with calculations
 - Immediately follows the column name (There can also be the optional AS keyword between the column name and alias.)
 - Requires double quotation marks if it contains spaces or special characters, or if it is casesensitive

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Concatenation Operator

- A concatenation operator:
 - Links columns or character strings to other columns
 - Is represented by two vertical bars (||)
- Creates a resultant column that is a character expression

SELECT last_name||job_id AS "Employees"
FROM Note:
mployees;
1 The as keyword before the alias name makes the SELECT
clause easier to read.
2 If you concatenate a null value with a character string, the
mployees result is a character string.
1 AbetsARP 2 DawlesTateRX: LLAST_NAME || NULL results in LAST_NAME.
3 De HashA.PP
4 EnstitLPROC

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Literal Character Strings

- A literal is a character, a number, or a date that is included in the SELECT statement.
- Date and character literal values must be enclosed by single quotation marks.
- Each character string is output once for each row returned.

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