**Lecture-4**

1. **Aliases**

SQL aliases are used to temporarily rename a table or a column heading.

**SQL Alias Syntax for Columns**

SELECT column\_name AS alias\_name  
FROM table\_name;

Example

SELECT CustomerID AS ID, CustomerName AS Customer

FROM Customers;

The following SQL statement creates an alias named "Address" that combine four columns (Address, PostalCode, City and Country):

Example

SELECT CustomerName, Address + ', ' + PostalCode + ' ' + City + ', ' + Country AS Address  
FROM Customers;

**Note:** To get the SQL statement above to work in MySQL use the following:

SELECT CustomerName, CONCAT(Address,', ',PostalCode,', ',City,', ',Country) AS Address  
FROM Customers;

## Alias for Tables Example

Example

SELECT o.OrderID, o.OrderDate, c.CustomerName  
FROM Customers AS c, Orders AS o  
WHERE c.CustomerName="Around the Horn" ANDc.CustomerID=o.CustomerID;

The following SQL statement is the same as above, but without aliases:

Example

SELECT Orders.OrderID, Orders.OrderDate, Customers.CustomerName  
FROM Customers, Orders  
WHERE Customers.CustomerName="Around the Horn" ANDCustomers.CustomerID=Orders.CustomerID;

Test

1. SELECT last\_name, salary, 12\*(salary+100)

FROM employees;

1. SELECT last\_name "Name", salary\*12 "Annual Salary"

FROM employees;

1. SELECT last\_name, salary

FROM employees

WHERE salary BETWEEN 2500 AND 3500;

1. SELECT employee\_id, last\_name, salary, manager\_id

FROM employees

WHERE manager\_id IN (100, 101, 201);

1. SELECT first\_name

FROM employees

WHERE first\_name LIKE 'S%';

1. SELECT last\_name

FROM employees

WHERE last\_name LIKE '\_o%';

1. SELECT last\_name, job\_id, salary

FROM employees

WHERE job\_id = 'SA\_REP'

OR job\_id = 'AD\_PRES'

AND salary > 15000;

### SQL UNION Syntax

### SELECT column\_name(s) FROM table1 UNION SELECT column\_name(s) FROM table2;

### SELECT column\_name(s) FROM table1 UNION ALL SELECT column\_name(s) FROM table2;

## SQL UNION ALL With WHERE

### Example

### SELECT City, Country FROM Customers WHERE Country='Germany' UNION ALL SELECT City, Country FROM Suppliers WHERE Country='Germany' ORDER BY City;