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Hands-on Exercise: ANSI SQL Operators

Session 04

Version: ANSI SQL/Hands-on Exercise/04/1.0

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ANSI SQL 04: ANSI SQL Operators

**Pre-requisites:** Tables should be created and data should be loaded into the tables.

Exercise.1

|  |  |  |
| --- | --- | --- |
| Estimated Completion Time: 60 Minutes | Marks: xx | |
|  |  | |
| Hands-on Exercise Objective | |
| After completing the hands-on exercises, you will be able to:  Write queries using ANSI SQL Operators. | |
|  |  | |

Problem Statement:

**Problem # 1:**

Write a query which fetches and displays all the trainers who don’t have an email.

**Problem # 2:**

Write a query which displays the id, name, track and location of all trainers who has Experience > 4 years.

**Problem # 3:** Select all the modules whose duration > 200.

**Problem # 4:**

Display the trainer Id, trainer name whose trainer qualification is not ‘Bachelor of Technology’.

**Problem # 5:**

Select all the modules whose duration is in the range 200 and 300.

**Problem # 6:**

Display the trainer Id, trainer name whose first name starts with ‘M’

**Problem # 7:**

Display the trainer Id, trainer name whose first name has a character ‘O’

**Problem # 8:**

Display the names of all the modules where the module name is not null.

Deliverables Expected:

**Solution Queries**

**Tips:**

|  |  |
| --- | --- |
| **Name** | **Description** |
| [AND, &&](https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) | Logical AND |
| [=](https://dev.mysql.com/doc/refman/5.5/en/assignment-operators.html#operator_assign-equal) | Assign a value (as part of a [SET](https://dev.mysql.com/doc/refman/5.5/en/set-statement.html) statement, or as part of the SET clause in an [UPDATE](https://dev.mysql.com/doc/refman/5.5/en/update.html) statement) |
| [:=](https://dev.mysql.com/doc/refman/5.5/en/assignment-operators.html#operator_assign-value) | Assign a value |
| [BETWEEN ... AND ...](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_between) | Check whether a value is within a range of values |
| [BINARY](https://dev.mysql.com/doc/refman/5.5/en/cast-functions.html#operator_binary) | Cast a string to a binary string |
| [&](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_bitwise-and) | Bitwise AND |
| [~](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_bitwise-invert) | Invert bits |
| [|](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_bitwise-or) | Bitwise OR |
| [^](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_bitwise-xor) | Bitwise XOR |
| [CASE](https://dev.mysql.com/doc/refman/5.5/en/control-flow-functions.html#operator_case) | Case operator |
| [DIV](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_div) | Integer division |
| [/](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_divide) | Division operator |
| [<=>](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_equal-to) | NULL-safe equal to operator |
| [=](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_equal) | Equal operator |
| [>=](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_greater-than-or-equal) | Greater than or equal operator |
| [>](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_greater-than) | Greater than operator |
| [IS NOT NULL](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is-not-null) | NOT NULL value test |
| [IS NOT](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is-not) | Test a value against a boolean |
| [IS NULL](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is-null) | NULL value test |
| [IS](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) | Test a value against a boolean |
| [<<](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_left-shift) | Left shift |
| [<=](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_less-than-or-equal) | Less than or equal operator |
| [<](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_less-than) | Less than operator |
| [LIKE](https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) | Simple pattern matching |
| [-](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_minus) | Minus operator |
| [% or MOD](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_mod) | Modulo operator |
| [NOT BETWEEN ... AND ...](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_not-between) | Check whether a value is not within a range of values |
| [!=, <>](https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_not-equal) | Not equal operator |
| [NOT LIKE](https://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_not-like) | Negation of simple pattern matching |
| [NOT REGEXP](https://dev.mysql.com/doc/refman/5.5/en/regexp.html#operator_not-regexp) | Negation of REGEXP |
| [NOT, !](https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) | Negates value |
| [||, OR](https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_or) | Logical OR |
| [+](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html" \l "operator_plus) | Addition operator |
| [REGEXP](https://dev.mysql.com/doc/refman/5.5/en/regexp.html" \l "operator_regexp) | Pattern matching using regular expressions |
| [>>](https://dev.mysql.com/doc/refman/5.5/en/bit-functions.html#operator_right-shift) | Right shift |
| [RLIKE](https://dev.mysql.com/doc/refman/5.5/en/regexp.html#operator_regexp) | Synonym for REGEXP |
| [SOUNDS LIKE](https://dev.mysql.com/doc/refman/5.5/en/string-functions.html#operator_sounds-like) | Compare sounds |
| [\*](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_times) | Multiplication operator |
| [-](https://dev.mysql.com/doc/refman/5.5/en/arithmetic-functions.html#operator_unary-minus) | Change the sign of the argument |
| [XOR](https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_xor) | Logical XOR |

[**https://dev.mysql.com/doc/refman/5.5/en/non-typed-operators.html**](https://dev.mysql.com/doc/refman/5.5/en/non-typed-operators.html)