

# SQL

## Online Tutorials

- [MySQL Cheat Sheet](#)

## WHERE

```
SELECT name, wins
FROM golfers
WHERE wins = 1;

-- Comparison
SELECT name
FROM golfers
WHERE name = 'George';

-- <>: tests whether two values are not equal
SELECT name, wins
FROM golfers
WHERE wins <> 1;

--
SELECT name, wins
FROM golfers
WHERE wins < 1;

-- <=: tests whether the first value is less than or equal to the second
SELECT name, wins
FROM golfers
WHERE wins <= 1;

-- >=: tests whether the first value is greater than or equal to the second
SELECT name, wins
FROM golfers
WHERE wins >= 1;

-- Null
SELECT name, rounds_played
FROM golfers
WHERE rounds_played IS NULL;
```

-- Range

```
SELECT name, best
FROM golfers
WHERE best BETWEEN 67 AND 73;
```

-- Membership

```
SELECT name, best
FROM golfers
WHERE best IN (65, 67, 69, 71);
```

-- Pattern Match

-- \_: an underscore represents a single unknown character

```
SELECT name, rounds_played
FROM golfers
WHERE rounds_played LIKE '2_';
```

-- %: a percentage sign represents zero or more unknown characters

```
SELECT name, rounds_played
FROM golfers
WHERE name LIKE 'G%';
```

-- Combining Multiple Predicates with AND and OR

```
SELECT name, best, worst, average
FROM golfers
WHERE best < 70 AND worst < 96;
```

--

```
SELECT name, best, worst, average
FROM golfers
WHERE best < 70 OR worst < 96;
```

--

```
SELECT name, average, worst, rounds_played
FROM golfers
WHERE average < 85 OR worst < 95 AND rounds_played BETWEEN 19 AND 23;
```

--

```
SELECT name, average, worst, rounds_played
FROM golfers
WHERE (average < 85 OR worst < 95) AND rounds_played BETWEEN 19 AND 23;
```

-- Excluding Results with NOT

```
SELECT name
FROM golfers
```

```
WHERE name NOT LIKE 'R%';

--

SELECT name, rounds_played
FROM golfers
WHERE rounds_played IS NOT NULL;

--

SELECT name, average, best, wins
FROM golfers
WHERE NOT (average < 80 AND best < 70) OR wins = 9;

--

SELECT name, average, best, wins
FROM golfers
WHERE NOT ((average < 80 AND best < 70) OR wins = 9);

--

SELECT name
FROM golfers
WHERE name NOT = 'Grady';
```

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