DML and DDL

MySQL Insert Rows into the Table

**1.** Write a SQL statement to insert a record with your own value into the table countries against each columns.

Here in the following is the structure of the table countries.

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| COUNTRY\_ID | varchar(2) | YES | | NULL | |

| COUNTRY\_NAME | varchar(40) | YES | | NULL | |

| REGION\_ID | decimal(10,0) | YES | | NULL | |

+--------------+---------------+------+-----+---------+-------+

Solution:

INSERT INTO countries VALUES('C1','India',1001);

**2.** Write a SQL statement to insert one row into the table countries against the column country\_id and country\_name.

Here in the following is the structure of the table countries.

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| COUNTRY\_ID | varchar(2) | YES | | NULL | |

| COUNTRY\_NAME | varchar(40) | YES | | NULL | |

| REGION\_ID | decimal(10,0) | YES | | NULL | |

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[Solution](https://www.w3resource.com/mysql-exercises/insert-into-statement/insert-into-statement-exercise-2.php):

INSERT INTO countries (country\_id,country\_name) VALUES('C1','India');

mysql> SELECT \* FROM countries;

+------------+--------------+-----------+

| COUNTRY\_ID | COUNTRY\_NAME | REGION\_ID |

+------------+--------------+-----------+

| C1 | India | NULL |

+------------+--------------+-----------+

1 row in set (0.00 sec)

**3.** Write a SQL statement to create duplicate of countries table named country\_new with all structure and data.

Here in the following is the structure of the table countries.

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| COUNTRY\_ID | varchar(2) | YES | | NULL | |

| COUNTRY\_NAME | varchar(40) | YES | | NULL | |

| REGION\_ID | decimal(10,0) | YES | | NULL | |

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SOLUTION

CREATE TABLE IF NOT EXISTS country\_new

AS SELECT \* FROM countries;

mysql> SHOW COLUMNS FROM country\_new;

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| COUNTRY\_ID | varchar(8) | YES | | NULL | |

| COUNTRY\_NAME | varchar(40) | YES | | NULL | |

| REGION\_ID | decimal(10,0) | YES | | NULL | |

+--------------+---------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> SELECT \* FROM country\_new;

+------------+--------------+-----------+

| COUNTRY\_ID | COUNTRY\_NAME | REGION\_ID |

+------------+--------------+-----------+

| C1 | India | 1001 |

+------------+--------------+-----------+

**4.** Write a SQL statement to insert NULL values against region\_id column for a row of countries table.

**5.** Write a SQL statement to insert 3 rows by a single insert statement.

**6.** Write a SQL statement insert rows from **country\_new** table to **countries** table.

Here is the rows for country\_new table. Assume that, the countries table is empty.

+------------+--------------+-----------+

| COUNTRY\_ID | COUNTRY\_NAME | REGION\_ID |

+------------+--------------+-----------+

| C0001 | India | 1001 |

| C0002 | USA | 1007 |

| C0003 | UK | 1003 |

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**7.** Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job\_id column.

**8.** Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job\_id column.

**9.** Write a SQL statement to insert a record into the table countries to ensure that, a country\_id and region\_id combination will be entered once in the table.

**10.** Write a SQL statement to insert rows into the table countries in which the value of country\_id column will be unique and auto incremented.

**11.** Write a SQL statement to insert records into the table countries to ensure that the country\_id column will not contain any duplicate data and this will be automatically incremented and the column country\_name will be filled up by 'N/A' if no value assigned for that column.

**12.** Write a SQL statement to insert rows in the job\_history table in which one column job\_id is containing those values which are exists in job\_id column of jobs table.

**13.** Write a SQL statement to insert rows into the table employees in which a set of columns department\_id and manager\_id contains a unique value and that combined values must have exists into the table departments.

**14.** Write a SQL statement to insert rows into the table employees in which a set of columns department\_id and job\_id contains the values which must have exists into the table departments and jobs.