**Hands on 5**

**Implement services for managing Country** 

**Explanation for Hibernate table creation configuration**

* Moreover the ddl-auto defines how hibernate behaves if a specific table or column is not present in the database.
  + create - drops existing tables data and structure, then creates new tables
  + validate - check if the table and columns exist or not, throws an exception if a matching table or column is not found
  + update - if a table does not exists, it creates a new table; if a column does not exists, it creates a new column
  + create-drop - creates the table, once all operations are completed, the table is dropped

# Hibernate ddl auto (create, create-drop, update, validate)

spring.jpa.hibernate.ddl-auto=validate

Populate country table

* Delete all the records in Country table and then use the below script to create the actual list of all countries in our world.

insert into country (co\_code, co\_name) values ("AF", "Afghanistan");

insert into country (co\_code, co\_name) values ("AL", "Albania");

insert into country (co\_code, co\_name) values ("DZ", "Algeria");

insert into country (co\_code, co\_name) values ("AS", "American Samoa");

insert into country (co\_code, co\_name) values ("AD", "Andorra");

insert into country (co\_code, co\_name) values ("AO", "Angola");

insert into country (co\_code, co\_name) values ("AI", "Anguilla");

insert into country (co\_code, co\_name) values ("AQ", "Antarctica");

insert into country (co\_code, co\_name) values ("AG", "Antigua and Barbuda");

insert into country (co\_code, co\_name) values ("AR", "Argentina");

insert into country (co\_code, co\_name) values ("AM", "Armenia");

insert into country (co\_code, co\_name) values ("AW", "Aruba");

insert into country (co\_code, co\_name) values ("AU", "Australia");

insert into country (co\_code, co\_name) values ("AT", "Austria");

insert into country (co\_code, co\_name) values ("AZ", "Azerbaijan");

insert into country (co\_code, co\_name) values ("BS", "Bahamas");

insert into country (co\_code, co\_name) values ("BH", "Bahrain");

insert into country (co\_code, co\_name) values ("BD", "Bangladesh");

insert into country (co\_code, co\_name) values ("BB", "Barbados");

insert into country (co\_code, co\_name) values ("BY", "Belarus");

insert into country (co\_code, co\_name) values ("BE", "Belgium");

insert into country (co\_code, co\_name) values ("BZ", "Belize");

insert into country (co\_code, co\_name) values ("BJ", "Benin");

insert into country (co\_code, co\_name) values ("BM", "Bermuda");

insert into country (co\_code, co\_name) values ("BT", "Bhutan");

insert into country (co\_code, co\_name) values ("BO", "Bolivia, Plurinational State of");

insert into country (co\_code, co\_name) values ("BQ", "Bonaire, Sint Eustatius and Saba");

insert into country (co\_code, co\_name) values ("BA", "Bosnia and Herzegovina");

insert into country (co\_code, co\_name) values ("BW", "Botswana");

insert into country (co\_code, co\_name) values ("BV", "Bouvet Island");

insert into country (co\_code, co\_name) values ("BR", "Brazil");

insert into country (co\_code, co\_name) values ("IO", "British Indian Ocean Territory");

insert into country (co\_code, co\_name) values ("BN", "Brunei Darussalam");

insert into country (co\_code, co\_name) values ("BG", "Bulgaria");

insert into country (co\_code, co\_name) values ("BF", "Burkina Faso");

insert into country (co\_code, co\_name) values ("BI", "Burundi");

insert into country (co\_code, co\_name) values ("KH", "Cambodia");

insert into country (co\_code, co\_name) values ("CM", "Cameroon");

insert into country (co\_code, co\_name) values ("CA", "Canada");

insert into country (co\_code, co\_name) values ("CV", "Cape Verde");

insert into country (co\_code, co\_name) values ("KY", "Cayman Islands");

insert into country (co\_code, co\_name) values ("CF", "Central African Republic");

insert into country (co\_code, co\_name) values ("TD", "Chad");

insert into country (co\_code, co\_name) values ("CL", "Chile");

insert into country (co\_code, co\_name) values ("CN", "China");

insert into country (co\_code, co\_name) values ("CX", "Christmas Island");

insert into country (co\_code, co\_name) values ("CC", "Cocos (Keeling) Islands");

insert into country (co\_code, co\_name) values ("CO", "Colombia");

insert into country (co\_code, co\_name) values ("KM", "Comoros");

insert into country (co\_code, co\_name) values ("CG", "Congo");

insert into country (co\_code, co\_name) values ("CD", "Congo, the Democratic Republic of the");

insert into country (co\_code, co\_name) values ("CK", "Cook Islands");

insert into country (co\_code, co\_name) values ("CR", "Costa Rica");

insert into country (co\_code, co\_name) values ("HR", "Croatia");

insert into country (co\_code, co\_name) values ("CU", "Cuba");

insert into country (co\_code, co\_name) values ("CW", "Curaçao");

insert into country (co\_code, co\_name) values ("CY", "Cyprus");

insert into country (co\_code, co\_name) values ("CZ", "Czech Republic");

insert into country (co\_code, co\_name) values ("CI", "Côte d'Ivoire");

insert into country (co\_code, co\_name) values ("DK", "Denmark");

insert into country (co\_code, co\_name) values ("DJ", "Djibouti");

insert into country (co\_code, co\_name) values ("DM", "Dominica");

insert into country (co\_code, co\_name) values ("DO", "Dominican Republic");

insert into country (co\_code, co\_name) values ("EC", "Ecuador");

insert into country (co\_code, co\_name) values ("EG", "Egypt");

insert into country (co\_code, co\_name) values ("SV", "El Salvador");

insert into country (co\_code, co\_name) values ("GQ", "Equatorial Guinea");

insert into country (co\_code, co\_name) values ("ER", "Eritrea");

insert into country (co\_code, co\_name) values ("EE", "Estonia");

insert into country (co\_code, co\_name) values ("ET", "Ethiopia");

insert into country (co\_code, co\_name) values ("FK", "Falkland Islands (Malvinas)");

insert into country (co\_code, co\_name) values ("FO", "Faroe Islands");

insert into country (co\_code, co\_name) values ("FJ", "Fiji");

insert into country (co\_code, co\_name) values ("FI", "Finland");

insert into country (co\_code, co\_name) values ("FR", "France");

insert into country (co\_code, co\_name) values ("GF", "French Guiana");

insert into country (co\_code, co\_name) values ("PF", "French Polynesia");

insert into country (co\_code, co\_name) values ("TF", "French Southern Territories");

insert into country (co\_code, co\_name) values ("GA", "Gabon");

insert into country (co\_code, co\_name) values ("GM", "Gambia");

insert into country (co\_code, co\_name) values ("GE", "Georgia");

insert into country (co\_code, co\_name) values ("DE", "Germany");

insert into country (co\_code, co\_name) values ("GH", "Ghana");

insert into country (co\_code, co\_name) values ("GI", "Gibraltar");

insert into country (co\_code, co\_name) values ("GR", "Greece");

insert into country (co\_code, co\_name) values ("GL", "Greenland");

insert into country (co\_code, co\_name) values ("GD", "Grenada");

insert into country (co\_code, co\_name) values ("GP", "Guadeloupe");

insert into country (co\_code, co\_name) values ("GU", "Guam");

insert into country (co\_code, co\_name) values ("GT", "Guatemala");

insert into country (co\_code, co\_name) values ("GG", "Guernsey");

insert into country (co\_code, co\_name) values ("GN", "Guinea");

insert into country (co\_code, co\_name) values ("GW", "Guinea-Bissau");

insert into country (co\_code, co\_name) values ("GY", "Guyana");

insert into country (co\_code, co\_name) values ("HT", "Haiti");

insert into country (co\_code, co\_name) values ("HM", "Heard Island and McDonald Islands");

insert into country (co\_code, co\_name) values ("VA", "Holy See (Vatican City State)");

insert into country (co\_code, co\_name) values ("HN", "Honduras");

insert into country (co\_code, co\_name) values ("HK", "Hong Kong");

insert into country (co\_code, co\_name) values ("HU", "Hungary");

insert into country (co\_code, co\_name) values ("IS", "Iceland");

insert into country (co\_code, co\_name) values ("IN", "India");

insert into country (co\_code, co\_name) values ("ID", "Indonesia");

insert into country (co\_code, co\_name) values ("IR", "Iran, Islamic Republic of");

insert into country (co\_code, co\_name) values ("IQ", "Iraq");

insert into country (co\_code, co\_name) values ("IE", "Ireland");

insert into country (co\_code, co\_name) values ("IM", "Isle of Man");

insert into country (co\_code, co\_name) values ("IL", "Israel");

insert into country (co\_code, co\_name) values ("IT", "Italy");

insert into country (co\_code, co\_name) values ("JM", "Jamaica");

insert into country (co\_code, co\_name) values ("JP", "Japan");

insert into country (co\_code, co\_name) values ("JE", "Jersey");

insert into country (co\_code, co\_name) values ("JO", "Jordan");

insert into country (co\_code, co\_name) values ("KZ", "Kazakhstan");

insert into country (co\_code, co\_name) values ("KE", "Kenya");

insert into country (co\_code, co\_name) values ("KI", "Kiribati");

insert into country (co\_code, co\_name) values ("KP", "Democratic People's Republic of Korea");

insert into country (co\_code, co\_name) values ("KR", "Republic of Korea");

insert into country (co\_code, co\_name) values ("KW", "Kuwait");

insert into country (co\_code, co\_name) values ("KG", "Kyrgyzstan");

insert into country (co\_code, co\_name) values ("LA", "Lao People's Democratic Republic");

insert into country (co\_code, co\_name) values ("LV", "Latvia");

insert into country (co\_code, co\_name) values ("LB", "Lebanon");

insert into country (co\_code, co\_name) values ("LS", "Lesotho");

insert into country (co\_code, co\_name) values ("LR", "Liberia");

insert into country (co\_code, co\_name) values ("LY", "Libya");

insert into country (co\_code, co\_name) values ("LI", "Liechtenstein");

insert into country (co\_code, co\_name) values ("LT", "Lithuania");

insert into country (co\_code, co\_name) values ("LU", "Luxembourg");

insert into country (co\_code, co\_name) values ("MO", "Macao");

insert into country (co\_code, co\_name) values ("MK", "Macedonia, the Former Yugoslav Republic of");

insert into country (co\_code, co\_name) values ("MG", "Madagascar");

insert into country (co\_code, co\_name) values ("MW", "Malawi");

insert into country (co\_code, co\_name) values ("MY", "Malaysia");

insert into country (co\_code, co\_name) values ("MV", "Maldives");

insert into country (co\_code, co\_name) values ("ML", "Mali");

insert into country (co\_code, co\_name) values ("MT", "Malta");

insert into country (co\_code, co\_name) values ("MH", "Marshall Islands");

insert into country (co\_code, co\_name) values ("MQ", "Martinique");

insert into country (co\_code, co\_name) values ("MR", "Mauritania");

insert into country (co\_code, co\_name) values ("MU", "Mauritius");

insert into country (co\_code, co\_name) values ("YT", "Mayotte");

insert into country (co\_code, co\_name) values ("MX", "Mexico");

insert into country (co\_code, co\_name) values ("FM", "Micronesia, Federated States of");

insert into country (co\_code, co\_name) values ("MD", "Moldova, Republic of");

insert into country (co\_code, co\_name) values ("MC", "Monaco");

insert into country (co\_code, co\_name) values ("MN", "Mongolia");

insert into country (co\_code, co\_name) values ("ME", "Montenegro");

insert into country (co\_code, co\_name) values ("MS", "Montserrat");

insert into country (co\_code, co\_name) values ("MA", "Morocco");

insert into country (co\_code, co\_name) values ("MZ", "Mozambique");

insert into country (co\_code, co\_name) values ("MM", "Myanmar");

insert into country (co\_code, co\_name) values ("NA", "Namibia");

insert into country (co\_code, co\_name) values ("NR", "Nauru");

insert into country (co\_code, co\_name) values ("NP", "Nepal");

insert into country (co\_code, co\_name) values ("NL", "Netherlands");

insert into country (co\_code, co\_name) values ("NC", "New Caledonia");

insert into country (co\_code, co\_name) values ("NZ", "New Zealand");

insert into country (co\_code, co\_name) values ("NI", "Nicaragua");

insert into country (co\_code, co\_name) values ("NE", "Niger");

insert into country (co\_code, co\_name) values ("NG", "Nigeria");

insert into country (co\_code, co\_name) values ("NU", "Niue");

insert into country (co\_code, co\_name) values ("NF", "Norfolk Island");

insert into country (co\_code, co\_name) values ("MP", "Northern Mariana Islands");

insert into country (co\_code, co\_name) values ("NO", "Norway");

insert into country (co\_code, co\_name) values ("OM", "Oman");

insert into country (co\_code, co\_name) values ("PK", "Pakistan");

insert into country (co\_code, co\_name) values ("PW", "Palau");

insert into country (co\_code, co\_name) values ("PS", "Palestine, State of");

insert into country (co\_code, co\_name) values ("PA", "Panama");

insert into country (co\_code, co\_name) values ("PG", "Papua New Guinea");

insert into country (co\_code, co\_name) values ("PY", "Paraguay");

insert into country (co\_code, co\_name) values ("PE", "Peru");

insert into country (co\_code, co\_name) values ("PH", "Philippines");

insert into country (co\_code, co\_name) values ("PN", "Pitcairn");

insert into country (co\_code, co\_name) values ("PL", "Poland");

insert into country (co\_code, co\_name) values ("PT", "Portugal");

insert into country (co\_code, co\_name) values ("PR", "Puerto Rico");

insert into country (co\_code, co\_name) values ("QA", "Qatar");

insert into country (co\_code, co\_name) values ("RO", "Romania");

insert into country (co\_code, co\_name) values ("RU", "Russian Federation");

insert into country (co\_code, co\_name) values ("RW", "Rwanda");

insert into country (co\_code, co\_name) values ("RE", "Réunion");

insert into country (co\_code, co\_name) values ("BL", "Saint Barthélemy");

insert into country (co\_code, co\_name) values ("SH", "Saint Helena, Ascension and Tristan da Cunha");

insert into country (co\_code, co\_name) values ("KN", "Saint Kitts and Nevis");

insert into country (co\_code, co\_name) values ("LC", "Saint Lucia");

insert into country (co\_code, co\_name) values ("MF", "Saint Martin (French part)");

insert into country (co\_code, co\_name) values ("PM", "Saint Pierre and Miquelon");

insert into country (co\_code, co\_name) values ("VC", "Saint Vincent and the Grenadines");

insert into country (co\_code, co\_name) values ("WS", "Samoa");

insert into country (co\_code, co\_name) values ("SM", "San Marino");

insert into country (co\_code, co\_name) values ("ST", "Sao Tome and Principe");

insert into country (co\_code, co\_name) values ("SA", "Saudi Arabia");

insert into country (co\_code, co\_name) values ("SN", "Senegal");

insert into country (co\_code, co\_name) values ("RS", "Serbia");

insert into country (co\_code, co\_name) values ("SC", "Seychelles");

insert into country (co\_code, co\_name) values ("SL", "Sierra Leone");

insert into country (co\_code, co\_name) values ("SG", "Singapore");

insert into country (co\_code, co\_name) values ("SX", "Sint Maarten (Dutch part)");

insert into country (co\_code, co\_name) values ("SK", "Slovakia");

insert into country (co\_code, co\_name) values ("SI", "Slovenia");

insert into country (co\_code, co\_name) values ("SB", "Solomon Islands");

insert into country (co\_code, co\_name) values ("SO", "Somalia");

insert into country (co\_code, co\_name) values ("ZA", "South Africa");

insert into country (co\_code, co\_name) values ("GS", "South Georgia and the South Sandwich Islands");

insert into country (co\_code, co\_name) values ("SS", "South Sudan");

insert into country (co\_code, co\_name) values ("ES", "Spain");

insert into country (co\_code, co\_name) values ("LK", "Sri Lanka");

insert into country (co\_code, co\_name) values ("SD", "Sudan");

insert into country (co\_code, co\_name) values ("SR", "Suriname");

insert into country (co\_code, co\_name) values ("SJ", "Svalbard and Jan Mayen");

insert into country (co\_code, co\_name) values ("SZ", "Swaziland");

insert into country (co\_code, co\_name) values ("SE", "Sweden");

insert into country (co\_code, co\_name) values ("CH", "Switzerland");

insert into country (co\_code, co\_name) values ("SY", "Syrian Arab Republic");

insert into country (co\_code, co\_name) values ("TW", "Taiwan, Province of China");

insert into country (co\_code, co\_name) values ("TJ", "Tajikistan");

insert into country (co\_code, co\_name) values ("TZ", "Tanzania, United Republic of");

insert into country (co\_code, co\_name) values ("TH", "Thailand");

insert into country (co\_code, co\_name) values ("TL", "Timor-Leste");

insert into country (co\_code, co\_name) values ("TG", "Togo");

insert into country (co\_code, co\_name) values ("TK", "Tokelau");

insert into country (co\_code, co\_name) values ("TO", "Tonga");

insert into country (co\_code, co\_name) values ("TT", "Trinidad and Tobago");

insert into country (co\_code, co\_name) values ("TN", "Tunisia");

insert into country (co\_code, co\_name) values ("TR", "Turkey");

insert into country (co\_code, co\_name) values ("TM", "Turkmenistan");

insert into country (co\_code, co\_name) values ("TC", "Turks and Caicos Islands");

insert into country (co\_code, co\_name) values ("TV", "Tuvalu");

insert into country (co\_code, co\_name) values ("UG", "Uganda");

insert into country (co\_code, co\_name) values ("UA", "Ukraine");

insert into country (co\_code, co\_name) values ("AE", "United Arab Emirates");

insert into country (co\_code, co\_name) values ("GB", "United Kingdom");

insert into country (co\_code, co\_name) values ("US", "United States");

insert into country (co\_code, co\_name) values ("UM", "United States Minor Outlying Islands");

insert into country (co\_code, co\_name) values ("UY", "Uruguay");

insert into country (co\_code, co\_name) values ("UZ", "Uzbekistan");

insert into country (co\_code, co\_name) values ("VU", "Vanuatu");

insert into country (co\_code, co\_name) values ("VE", "Venezuela, Bolivarian Republic of");

insert into country (co\_code, co\_name) values ("VN", "Viet Nam");

insert into country (co\_code, co\_name) values ("VG", "Virgin Islands, British");

insert into country (co\_code, co\_name) values ("VI", "Virgin Islands, U.S.");

insert into country (co\_code, co\_name) values ("WF", "Wallis and Futuna");

insert into country (co\_code, co\_name) values ("EH", "Western Sahara");

insert into country (co\_code, co\_name) values ("YE", "Yemen");

insert into country (co\_code, co\_name) values ("ZM", "Zambia");

insert into country (co\_code, co\_name) values ("ZW", "Zimbabwe");

insert into country (co\_code, co\_name) values ("AX", "Åland Islands");

Refer subsequent hands on exercises to implement the features related to country.

