

Sample Database

Source: <https://northwinddatabase.codeplex.com/>

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Northwind DB

The Northwind database is used for storing information about product orders, as well as storing info about the employees who “closed the deal” and the supplier who delivered the product.

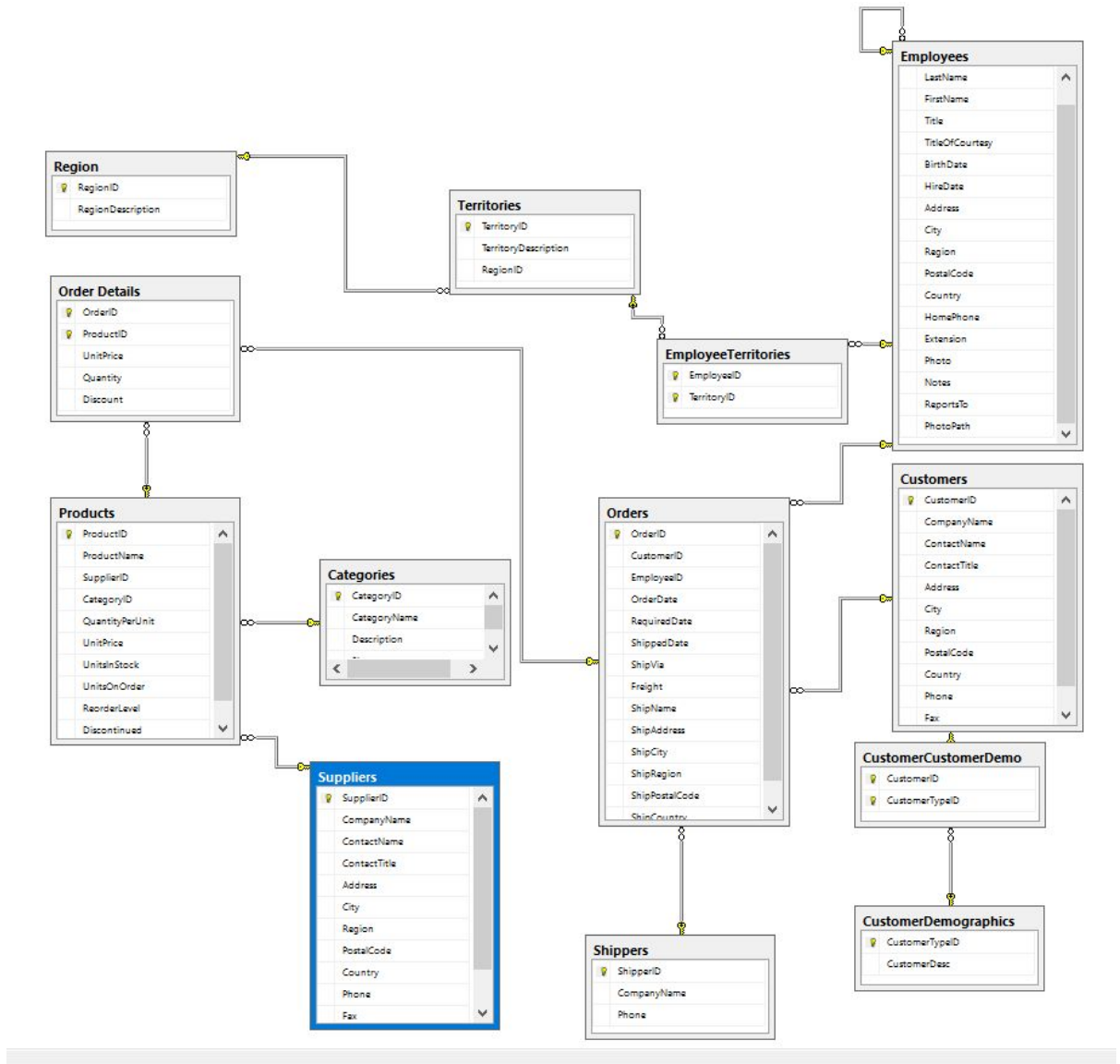


Fig.1 Database Diagram

Primary keys:

- ProductID in Products
- CustomerID in Customers
- ShipperID in Shippers
- SupplierID in Suppliers

Foreign keys:

- SupplierID in Products
- CategoryID in Products
- CustomerID in Customers
- RegionID in Territories

Relationships

->One-to-many:

- One Region can be found in many Territories
- One Employee can be involved in many Orders
- One Customer can have many Orders

->Many-to-Many

- CustomerDemographics-Customers

->One-to_One-not present in the database

Data examples:

→ **Table Products** contains information about the the product which had been sold. It stores its name, the supplier's id along with the category, stock quantity, price per unit and others.

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	1	Chai	1	1	10 boxes x 20 bags	18.00	39	0	10	0
2	2	Chang	1	1	24 - 12 oz bottles	19.00	17	40	25	0
3	3	Aniseed Syrup	1	2	12 - 550 ml bottles	10.00	13	70	25	0
4	4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.00	53	0	0	0
5	5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35	0	0	0	1
6	6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.00	120	0	25	0
7	7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30.00	15	0	10	0
8	8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.00	6	0	0	0
9	9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.00	29	0	0	1
10	10	Ikura	4	8	12 - 200 ml jars	31.00	31	0	0	0
11	11	Queso Cabrales	5	4	1 kg pkg.	21.00	22	30	30	0
12	12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38.00	86	0	0	0

→ **Customers Table** contains information about the customers that bought the products. Every customer has a unique ID, a company name, a contact name which represents the company's spokesman along with its title. Moreover, every company has an address, a city in which is placed, a region, postal code and a country in which it is found. For contacting the customer, the buyer can use the last two columns which store the telephone number and the fax.

	CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax
1	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	NULL	12209	Germany	030-0074321	030-0076545
2	ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	NULL	05021	Mexico	(5) 555-4729	(5) 555-3745
3	ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	NULL	05023	Mexico	(5) 555-3932	NULL
4	AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	NULL	WA1 1DP	UK	(171) 555-7788	(171) 555-6750
5	BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	NULL	S-958 22	Sweden	0921-12 34 65	0921-12 34 67
6	BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	NULL	68306	Germany	0621-08460	0621-08924
7	BLONP	Blondesddsl père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	NULL	67000	France	88.60.15.31	88.60.15.32
8	BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	NULL	28023	Spain	(91) 555 22 82	(91) 555 91 99
9	BONAP	Bon app'	Laurence Leblan	Owner	12, rue des Bouchers	Marseille	NULL	13008	France	91.24.45.40	91.24.45.41
10	BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada	(604) 555-4729	(604) 555-3745
11	BSBEV	B's Beverages	Victoria Ashworth	Sales Representative	Fauntleroy Circus	London	NULL	EC2 5NT	UK	(171) 555-1212	NULL
12	CACTU	Cactus Comidas para llevar	Patricio Simpson	Sales Agent	Cerrito 333	Buenos Aires	NULL	1010	Argentina	(1) 135-5555	(1) 135-4892
13	CENTC	Centro comercial Moctezuma	Francisco Chang	Marketing Manager	Sierras de Granada 9993	México D.F.	NULL	05022	Mexico	(5) 555-3392	(5) 555-7293
14	CHOPS	Chop-suey Chinese	Yang Wang	Owner	Hauptstr. 29	Bern	NULL	3012	Switzerland	0452-076545	NULL

External Views

1. Display the shipper who brought the product and the company that bought it

```

SELECT      dbo.Orders.OrderID, dbo.Customers.CustomerID,
dbo.Customers.CompanyName, dbo.Products.ProductName,
dbo.Shippers.ShipperID
FROM        dbo.Customers INNER JOIN
            dbo.Orders ON dbo.Customers.CustomerID =
            dbo.Orders.CustomerID INNER JOIN
            dbo.Shippers ON dbo.Orders.ShipVia =
            dbo.Shippers.ShipperID CROSS JOIN
            dbo.Products

```

OrderID	CustomerID	CompanyName	ProductName	Expr1
10248	VINET	Vins et alcools ...	Chai	Federal Shipping
10248	VINET	Vins et alcools ...	Chang	Federal Shipping
10248	VINET	Vins et alcools ...	Aniseed Syrup	Federal Shipping
10248	VINET	Vins et alcools ...	Chef Anton's C...	Federal Shipping
10248	VINET	Vins et alcools ...	Chef Anton's G...	Federal Shipping
10248	VINET	Vins et alcools ...	Grandma's Boy...	Federal Shipping
10248	VINET	Vins et alcools ...	Uncle Bob's Or...	Federal Shipping
10248	VINET	Vins et alcools ...	Northwoods Cr...	Federal Shipping
10248	VINET	Vins et alcools ...	Mishi Kobe Niku	Federal Shipping
10248	VINET	Vins et alcools ...	Ikura	Federal Shipping
10248	VINET	Vins et alcools ...	Queso Cabrales	Federal Shipping
10248	VINET	Vins et alcools ...	Queso Manche...	Federal Shipping
10248	VINET	Vins et alcools ...	Konbu	Federal Shipping
10248	VINET	Vins et alcools ...	Tofu	Federal Shipping

2.Display all the info regarding a product along with its supplier and category

```

SELECT      dbo.Products.*, dbo.Categories.CategoryName,
dbo.Suppliers.CompanyName
FROM        dbo.Categories INNER JOIN
            dbo.Products ON dbo.Categories.CategoryID =
dbo.Products.CategoryID INNER JOIN
            dbo.Suppliers ON dbo.Products.SupplierID =
dbo.Suppliers.SupplierID

```

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued	CategoryName	CompanyName
1	Chai	1	1	10 boxes x 20 b...	18.0000	39	0	10	False	Beverages	Exotic Liquids
2	Chang	1	1	24 - 12 oz bottles	19.0000	17	40	25	False	Beverages	Exotic Liquids
3	Aniseed Syrup	1	2	12 - 550 ml bott...	10.0000	13	70	25	False	Condiments	Exotic Liquids
4	Chef Anton's C...	2	2	48 - 6 oz jars	22.0000	53	0	0	False	Condiments	New Orleans C...
5	Chef Anton's G...	2	2	36 boxes	21.3500	0	0	0	True	Condiments	New Orleans C...
6	Grandma's Boy...	3	2	12 - 8 oz jars	25.0000	120	0	25	False	Condiments	Grandma Kelly'...
7	Uncle Bob's Or...	3	7	12 - 1 lb pkgs.	30.0000	15	0	10	False	Produce	Grandma Kelly'...
8	Northwoods Cr...	3	2	12 - 12 oz jars	40.0000	6	0	0	False	Condiments	Grandma Kelly'...
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.0000	29	0	0	True	Meat/Poultry	Tokyo Traders

3.Display which Employees checked out for a specific company

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SELECT      dbo.Employees.LastName, dbo.Employees.FirstName,
dbo.Customers.CompanyName
FROM        dbo.Employees INNER JOIN

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        dbo.EmployeeTerritories ON dbo.Employees.EmployeeID =
dbo.EmployeeTerritories.EmployeeID INNER JOIN
        dbo.Orders ON dbo.Employees.EmployeeID =
dbo.Orders.EmployeeID INNER JOIN
        dbo.Territories ON dbo.EmployeeTerritories.TerritoryID =
dbo.Territories.TerritoryID INNER JOIN
        dbo.Customers ON dbo.Orders.CustomerID =
dbo.Customers.CustomerID
WHERE      (dbo.Customers.CompanyName = 'Ernst Handel')

```

LastName	FirstName	CompanyName
Davolio	Nancy	Ernst Handel
Davolio	Nancy	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Dodsworth	Anne	Ernst Handel
Davolio	Nancy	Ernst Handel
Davolio	Nancy	Ernst Handel

4.View what every supplier sells and the discount it offers

```

SELECT      dbo.Shippers.CompanyName, dbo.Products.ProductName,
dbo.[Order Details].UnitPrice, dbo.[Order Details].Discount
FROM        dbo.[Order Details] INNER JOIN
        dbo.Orders ON dbo.[Order Details].OrderID =
dbo.Orders.OrderID INNER JOIN
        dbo.Products ON dbo.[Order Details].ProductID =
dbo.Products.ProductID INNER JOIN
        dbo.Shippers ON dbo.Orders.ShipVia = dbo.Shippers.ShipperID

```

CompanyName	ProductName	UnitPrice	Discount
Federal Shipping	Queso Cabrales	14.0000	0
Federal Shipping	Singaporean H...	9.8000	0
Federal Shipping	Mozzarella di Gi...	34.8000	0
Speedy Express	Tofu	18.6000	0
Speedy Express	Manjimup Drie...	42.4000	0
United Package	Jack's New Engl...	7.7000	0
United Package	Manjimup Drie...	42.4000	0.15
United Package	Louisiana Fiery ...	16.8000	0.15
Speedy Express	Gustaf's Knäcke...	16.8000	0.05
Speedy Express	Ravioli Angelo	15.6000	0.05
Speedy Express	Louisiana Fiery ...	16.8000	0
United Package	Sir Rodney's M...	64.8000	0.05
United Package	Geitost	2.0000	0.05

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 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778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 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1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570