Catalogue Ontology:

1. Find contact of a company “*MICUNA S.L.*”.

*PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>*

*PREFIX owl: <http://www.w3.org/2002/07/owl#>*

*PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX cb: <http://cbasewrap.ontologycentral.com/vocab#>*

*SELECT ?name ?email ?tel ?fax ?partyName*

*WHERE {*

*?party cac:Contact ?contact;*

*cbc:Name ?partyName.*

*?contact cbc:Name ?name;*

*cbc:Telephone ?tel;*

*cbc:Telefax ?fax.*

*FILTER (?partyName = "MICUNA S.L." ^^xsd:string)*

*}*

1. Find contacts of the company in country “Spain” who sell product “Globito” as well as estimated delivery period.

*PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>*

*PREFIX owl: <http://www.w3.org/2002/07/owl#>*

*PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX cb: <http://cbasewrap.ontologycentral.com/vocab#>*

*SELECT ?partyName ?contactName ?email ?tel ?fax ?productName ?estimatedDeliveryPeriodVal ?estimatedDeliveryPeriodValUnit*

*WHERE {*

*?party cac:Contact ?contact;*

*cbc:Name ?partyName;*

*ublcatalogue:Catalogue ?productCatalogue;*

*cac:DeliveryTerms ?deliveryTerms;*

*cac:PostalAddress ?partyAddress.*

*?partyAddress cac:Country ?partyCountry.*

*?partyCountry cbc:Name ?partyCountryName.*

*?productCatalogue cac:CatalogueLine ?catalogueLine.*

*?catalogueLine cac:GoodsItem ?goodsItem.*

*?goodsItem cac:Item ?item.*

*?deliveryTerms cac:EstimatedDeliveryPeriod ?estimatedDeliveryPeriod.*

*?estimatedDeliveryPeriod cbc:DurationMeasure ?estimatedDeliveryPeriodDuration.*

*?estimatedDeliveryPeriodDuration cbc:ValueDecimal ?estimatedDeliveryPeriodVal;*

*cbc:unitCode ?estimatedDeliveryPeriodValUnit.*

*?item cbc:Name ?productName.*

*?contact cbc:Name ?contactName;*

*cbc:Telephone ?tel;*

*cbc:Telefax ?fax.*

*FILTER (?productName = "Globito"^^xsd:string && ?partyCountryName = "Spain"^^xsd:string).*

*}*

Integration with eClass and other product ontologies:

1. Find all products under the eClass Category „*50079090* “.

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*SELECT ?item ?productName*

*WHERE {*

*?item cac:CommodityClassification/cbc:ItemClassificationCode ?itemClassificationCode;*

*cbc:Name ?productName.*

*?itemClassificationCode cbc:listID "eClass"^^xsd:string;*

*cbc:Value "50079090"^^xsd:string.*

*}*

1. Find all products under the furniture category “ChildrenPieceOfFurniture” and contacts of their suppliers.

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>*

*SELECT ?item ?productName ?partyName ?contactName ?tel ?fax*

*WHERE {*

*?item cac:CommodityClassification/cbc:ItemClassificationCode/catalogue:linkedDataURI ?category;*

*cbc:Name ?productName.*

*?category rdfs:subClassOf\* <http://www.aidima.eu/ontologies/furniture#BabyCradle>.*

*?party cac:Contact ?contact;*

*cbc:Name ?partyName;*

*ublcatalogue:Catalogue/cac:CatalogueLine/cac:GoodsItem/cac:Item ?item.*

*?contact cbc:Name ?contactName;*

*cbc:Telephone ?tel;*

*cbc:Telefax ?fax.*

*}*

1. Find contacts of the company who sell product in the category “*ChildrenPieceOfFurniture*” with some has no legs and is not foldable.

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>*

*PREFIX furniture: <http://www.aidima.eu/ontologies/furniture#>*

*PREFIX cb: <http://cbasewrap.ontologycentral.com/vocab#>*

*SELECT ?item ?productName ?partyName ?contactName ?tel ?fax*

*WHERE {*

*?item cac:CommodityClassification ?itemClassification;*

*cbc:Name ?productName.*

*?itemClassification cbc:ItemClassificationCode/catalogue:linkedDataURI ?category;*

*catalogue:ItemInstanceURI ?domainItem.*

*?category rdfs:subClassOf\* furniture:BabyCradle.*

*?party cac:Contact ?contact;*

*cbc:Name ?partyName;*

*ublcatalogue:Catalogue/cac:CatalogueLine/cac:GoodsItem/cac:Item ?item.*

*?contact cbc:Name ?contactName;*

*cbc:Telephone ?tel;*

*cbc:Telefax ?fax.*

*?domainItem furniture:hasLegs "false"^^xsd:boolean;*

*furniture:isFoldable "false"^^xsd:boolean.*

*}*

Service Product:

1. Who can provide Furniture „Polishing“ service for the product “Globito”?

*PREFIX catalogue: <http://www.nimble-project.org/catalogue#>*

*PREFIX cac: <urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2#>*

*PREFIX cbc: <urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2#>*

*PREFIX ublcatalogue: <urn:oasis:names:specification:ubl:schema:xsd:Catalogue-2#>*

*PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>*

*PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>*

*PREFIX furniture: <http://www.aidima.eu/ontologies/furniture#>*

*PREFIX cb: <http://cbasewrap.ontologycentral.com/vocab#>*

*SELECT ?partyName ?contactName ?tel ?fax*

*WHERE {*

*?catalogueLine cac:RequiredRelatedItem/cac:Item/cbc:Name ?productName;*

*cac:Item ?serviceItem.*

*?serviceItem a furniture:Polishing.*

*?party ublcatalogue:Catalogue/cac:CatalogueLine ?catalogueLine;*

*cac:Contact ?contact;*

*cbc:Name ?partyName.*

*?contact cbc:Name ?contactName;*

*cbc:Telephone ?tel;*

*cbc:Telefax ?fax.*

*FILTER (?productName = "Globito"^^xsd:string).*

*}*