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 sw: <http://www.semanticweb.org/home/ontologies/2023/9/contentstreamingwebsite/>

**Use Case 1: Using a subscribed account**

**Q1: What subscription plans are available?**

**Q2: How can the subscription plan be changed?**

**Q3: What is the difference between a basic subscription plan and a premium one?**

**Q4: What will happen if a subscribed plan is canceled?**

**Q5: What are the benefits of a subscribed account?**

**Q6: How to see only family-friendly content?**

**SPARQL Query**

**Q1: What subscription plans are available?**

SELECT ?y ?x

WHERE { ?x rdfs:subClassOf ?y

filter(?y = sw:Subscription\_Plan)

}

**Q2: Can the subscription plan be changed?**

SELECT ?subject ?object ?p ?o

WHERE { ?subject sw:canChangeSubscription ?object.

?subject ?p ?o

filter(?p = sw:canChangeSubscription && ?object != ?o)

}

**Q3: What is the difference between a basic subscription plan and a premium one?**

SELECT ?subject ?object ?p ?o

WHERE { ?subject sw:hasFeatures ?object.

?subject ?p ?o

filter(?p = sw:premium\_plan\_features || ?p = sw:basic\_plan\_features)

}

**Q4: What will happen if a subscribed plan is canceled?**

SELECT ?subject ?object ?p ?o

WHERE { ?subject sw:CancelsSubscription ?object.

?subject ?p ?o

filter(?p = sw:SubscriptionCancel)

}

**Q5: What are the benefits of a subscribed account?**

SELECT ?Subscriber ?SubscriberAccount ?p ?o

WHERE { ?Subscriber sw:hasBenefitsOf ?SubscriberAccount.

?Subscriber ?p ?o

filter( ?p = sw:SubscriberBenefits)

}

**Q6: How to see only family-friendly content?**

SELECT ?object ?p WHERE {

?subject sw:cansetParental\_Controls ?object.

?subject ?p ?object

filter(?p = sw:cansetParental\_Controls)

}

**Use Case 2: Using a creator account**

**Q1: Who can upload the content?**

**Q2: How production companies can stream their content on this platform?**

**Q3: Who can supervise the uploaded content?**

**Q4: How can the creator track the performance and analytics of the content?**

**Q5: What are the guidelines/rules for uploading content?**

**Q6: What will happen if content rules are violated?**

**SPARQL Query**

**Q1: Who can upload the content?**

SELECT ?subject (SAMPLE(?p) AS ?p)

WHERE {

?subject sw:uploadsContent ?object.

?subject ?p ?object

FILTER (?p = sw:uploadsContent)

}

GROUP BY ?subject

**Q2: How production companies can stream their content on this platform?**

SELECT ?subject ?p ?object

WHERE {

?subject sw:signsContract ?object.

?subject ?p ?object

}

**Q3: Who can supervise the uploaded content?**

SELECT ?subject ?p ?object

WHERE { ?subject sw:supervisesContent ?object.

?subject ?p ?object

}

**Q4: How can the creator track the performance and analytics of the content?**

SELECT ?subject ?p ?o

WHERE { ?subject sw:analyzesContent ?object.

?subject ?p ?o

filter(?p=sw:contentAnalytics && ?subject!=sw:AdminAcc)

}

**Q5: What are the guidelines/rules for uploading content?**

SELECT ?subject ?object ?p ?o

WHERE { ?subject sw:followsGuidelines ?object.

?subject ?p ?o

filter(?p =sw:content\_guidelines)

}

**Q6: What will happen if content rules are violated?**

SELECT ?subject ?p ?object

WHERE { ?subject sw:willBlockAccount ?object.

?subject ?p ?object

filter(?p = sw:willBlockAccount)

}

**Use Case 3: Getting information about content**

**Q1: How revenue can be calculated for the content?**

**Q2: Which content is uploaded by “Joe Rogan”?**

**Q3. Is there any audio-only content available?**

**Q4: What sort of content is available?**

**Q5: What is the detail of “The Boys”?**

**SPARQL Query**

**Q1: How is revenue calculated for the content?**

SELECT ?subject ?object ?p ?o

WHERE { ?subject sw:generatesRevenueBy ?object.

?subject ?p ?o

filter(?p = sw:content\_revenue)

}

**Q2: Which content is uploaded by “Joe Rogan”?**

SELECT ?subject ?p ?object

WHERE { ?subject sw:isOwnedBy ?object.

?subject ?p ?object

filter (?object = sw:Joe\_Rogan)

}

**Q3. Is there any audio-only content available?**

SELECT ?type

WHERE { ?type rdfs:subClassOf sw:Content . }

**Q4: What sort of content is available?**

SELECT ?subClass WHERE {

?subClass rdfs:subClassOf\* sw:Content

filter(?subClass != sw:Content)

}

**Q5: What is the detail of “The Boys”?**

SELECT ?entity ?p ?o

WHERE {

?entity rdf:type ?type.

?type rdfs:subClassOf\* sw:Content.

?entity ?p ?o

filter(?p != rdf:type && ?entity = sw:The\_Boys)

}