Redshift

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Fields of Study

EntityRelatedEntities

EntityId	#
EntityType	t
RelatedEntityId	#
RelatedEntityType	t
RelatedType	#
Score	#

FieldsOfStudy

FieldOfStudyId	↙
Rank	t
NormalizedName	t
DisplayName	t
MainType	t
Level	#
PaperCount	#
PaperFamilyCount	#
CitationCount	#
CreatedDate	t

FieldOfStudyExtendedAttributes

FieldOfStudyId	↗
AttributeType	#
AttributeValue	t

FieldOfStudyChildren

FieldOfStudyId	↗
ChildFieldOfStudyId	↗

PaperFieldsOfStudy

PaperId	↗
FieldOfStudyId	↗
Score	#
AlgorithmVersion	#

RelatedFieldOfStudy

FieldOfStudyId1	↗
Type1	t
FieldOfStudyId2	↗
Type2	t
Rank	#

PaperExtendedAttributes

PaperId	↗
AttributeType	#
AttributeValue	t

PaperRecommendations

PaperId	↗
RecommendedPaperId	↗
Score	#

PaperResources

PaperId	↗
ResourceType	#
ResourceUrl	t
SourceUrl	t
RelationshipType	#

PaperMeSH

PaperId	↗
DescriptorUI	t
DescriptorName	t
QualifierUI	t
QualifierName	t
IsMajorTopic	b

PaperReferences

PaperId	↗
PaperReferenceId	↗

PaperUrls

PaperId	↗
SourceType	#
SourceUrl	t
LanguageCode	t
UrlForLandingPage	t
UrlForPdf	t
HostType	t
Version	t
License	t
RepositoryInstitution	t
OaiPmhId	t

Papers

PaperId	↙
Rank	#
Doi	t
DocType	t
Genre	t
IsParatext	b
PaperTitle	t
OriginalTitle	t
BookTitle	t
Year	#
Date	t
OnlineDate	t
Publisher	t
JournalId	↗
ConferenceSeriesId	↗
ConferenceInstanceId	↗
Volume	t
Issue	t
FirstPage	t
LastPage	t
ReferenceCount	#
CitationCount	#
EstimatedCitation	#
OriginalVenue	t
FamilyId	#
FamilyRank	#
DocSubTypes	t
OaStatus	t
BestUrl	t
BestFreeUrl	t
BestFreeVersion	t
DoiLower	t
CreatedDate	t
UpdatedDate	d

PaperCitationContexts

PaperId	↗
PaperReferenceId	↗
CitationContext	t

PaperAbstractsInvertedIndex

PaperId	↗
IndexedAbstract	t

Journals

JournalId	↙
Rank	#
NormalizedName	t
DisplayName	t
Issn	t
Issns	t
IsOa	b
IsInDoaj	b
Publisher	t
Webpage	t
PaperCount	#
PaperFamilyCount	#
CitationCount	#
CreatedDate	t
UpdatedDate	d

Authors and Affiliations

PaperAuthorAffiliations

PaperId	↗
AuthorId	↗
AffiliationId	↗
AuthorSequenceNumber	#
OriginalAuthor	t
OriginalAffiliation	t

Authors

AuthorId	↙
Rank	#
NormalizedName	t
DisplayName	t
Orcid	t
LastKnownAffiliationId	↗
PaperCount	#
PaperFamilyCount	#
CitationCount	#
CreatedDate	t
UpdatedDate	d

AuthorExtendedAttributes

AuthorId	↗
AttributeType	#
AttributeValue	t

Affiliations

AffiliationId	↙
Rank	#
NormalizedName	t
DisplayName	t
GridId	t
RorId	t
OfficialPage	t
WikiPage	t
PaperCount	#
PaperFamilyCount	#
CitationCount	#
Iso3166Code	t
Latitude	#
Longitude	#
CreatedDate	t
UpdatedDate	d

Conferences

ConferenceSeries

ConferenceSeriesId	↙
Rank	#
NormalizedName	t
DisplayName	t
PaperCount	#
PaperFamilyCount	#
CitationCount	#
CreatedDate	t

ConferenceInstances

ConferenceInstanceId	↙
NormalizedName	t
DisplayName	t
ConferenceSeriesId	↗
Location	t
OfficialUrl	t
StartDate	t
EndDate	t
AbstractRegistrationDate	t
SubmissionDeadlineDate	t
NotificationDueDate	t
FinalVersionDueDate	t
PaperCount	#
PaperFamilyCount	#
CitationCount	#
Latitude	#
Longitude	#
CreatedDate	t

Main Layout

Table Affiliations

Base table for affiliations/institutions (mag/Affiliations.txt)

AffiliationId	bigint	PRIMARY KEY
Rank	integer	FROZEN; no new ranks are being added.
NormalizedName	varchar	UPDATED; slightly different normalization algorithm
DisplayName	varchar	
GridId	varchar	FROZEN; ror_id is the new standard identifier for organizations
RorId	varchar	NEW; ROR for this organization, see https://ror.org, https://ror.org/:ror_id
OfficialPage	varchar	
WikiPage	varchar	
PaperCount	bigint	
PaperFamilyCount	bigint	FROZEN; same value as "paper_count.
CitationCount	bigint	
Iso3166Code	varchar	Two-letter country codes, see https://en.wikipedia.org/wiki/ISO_3166-2
Latitude	real	
Longitude	real	
CreatedDate	varchar	
UpdatedDate	timestamp	NEW; set values updated from new ror data

Indexes

Distribution	AffiliationId
Sorting	AffiliationId

Table AuthorExtendedAttributes

Additional author name representations (mag/AuthorExtendedAttributes.txt)

AuthorId	bigint	FOREIGN KEY REFERENCES Authors.AuthorId
AttributeType	integer	Possible values: 1=Alternative name
AttributeValue	varchar	

Indexes

Distribution	AuthorId
Sorting	AuthorId

Foreign Keys

Vir Fk_AuthorExtendedAttributes_Authors (AuthorId) ref Authors (AuthorId)

Table Authors

Base table for authors (mag/Authors.txt)

AuthorId	bigint	PRIMARY KEY
Rank	integer	FROZEN; no new ranks are being added
NormalizedName	varchar	UPDATED; slightly different normalization algorithm
DisplayName	varchar	
Orcid	varchar	NEW; ORCID identifier for this author
LastKnownAffiliationId	integer	
PaperCount	bigint	
PaperFamilyCount	bigint	FROZEN; same value as "paper_count
CitationCount	bigint	
CreatedDate	varchar	
UpdatedDate	timestamp	NEW; set when changes are made going forward

Indexes

Distribution	AuthorId
Sorting	AuthorId

Foreign Keys

Table Authors

Vir Fk_Authors_Affiliations (LastKnownAffiliationId) ref Affiliations (AffiliationId)

Table ConferenceInstances

FROZEN; Base table for Conference Instances (mag/ConferenceInstances.txt)

	ConferenceInstanceId	bigint	PRIMARY KEY
	NormalizedName	varchar	UPDATED; slightly different normalization algorithm
	DisplayName	varchar	
	ConferenceSeriesId	bigint	FOREIGN KEY REFERENCES ConferenceSeries.ConferenceSeriesId
	Location	varchar	
	OfficialUrl	varchar	
	StartDate	varchar	
	EndDate	varchar	
	AbstractRegistrationDate	varchar	
	SubmissionDeadlineDate	varchar	
	NotificationDueDate	varchar	
	FinalVersionDueDate	varchar	
	PaperCount	bigint	
	PaperFamilyCount	bigint	FROZEN; same value as "paper_count
	CitationCount	bigint	
	Latitude	real	
	Longitude	real	
	CreatedDate	varchar	

Indexes

	Distribution	ConferenceInstanceId
	Sorting	ConferenceInstanceId

Foreign Keys

Vir Fk_ConferenceInstances_ConferenceSeries (ConferenceSeriesId) ref ConferenceSeries (ConferenceSeriesId)

Table ConferenceSeries

FROZEN; Base table for Conference Series (mag/ConferenceSeries.txt)

	ConferenceSeriesId	bigint	PRIMARY KEY
	Rank	integer	FROZEN; no new ranks are being added
	NormalizedName	varchar	UPDATED; slightly different normalization algorithm
	DisplayName	varchar	
	PaperCount	bigint	
	PaperFamilyCount	bigint	FROZEN; same value as "paper_count
	CitationCount	bigint	
	CreatedDate	varchar	

Indexes

	Distribution	ConferenceSeriesId
	Sorting	ConferenceSeriesId

Table EntityRelatedEntities

Relationship between papers, authors, fields of study. (advanced/EntityRelatedEntities.txt)

	EntityId	bigint	
	EntityType	varchar	Possible values: af (Affiliation), j (Journal), c (Conference)
	RelatedEntityId	bigint	
	RelatedEntityType	varchar	Possible values: af (Affiliation), j (Journal), c (Conference)
	RelatedType	integer	Possible values: 0 (same paper), 1 (common coauthors), 2 (co-cited), 3 (common field of study), 4 (same venue), 5 (A cites B), 6 (B cites A)

Table EntityRelatedEntities

	Score	real	Confidence range between 0 and 1. Larger number representing higher confidence.
Indexes			
	Distribution	EntityId	
	Sorting	EntityId	

Table FieldOfStudyChildren

Relationship between Fields of Study (advanced/FieldOfStudyChildren.txt)

	FieldOfStudyId	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
	ChildFieldOfStudyId	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
Indexes			
	Distribution	FieldOfStudyId	
	Sorting	FieldOfStudyId	
Foreign Keys			
Vir	Fk_FieldOfStudyChildren_FieldsOfStudy (FieldOfStudyId) ref FieldsOfStudy (FieldOfStudyId)		
Vir	Fk_FieldOfStudyChildren_FieldsOfStudy_0 (ChildFieldOfStudyId) ref FieldsOfStudy (FieldOfStudyId)		

Table FieldOfStudyExtendedAttributes

Other identifiers for Fields of Study (advanced/FieldOfStudyExtendedAttributes.txt)

	FieldOfStudyId	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
	AttributeType	bigint	Possible values: 1 (AUI from UMLS https://www.nlm.nih.gov/research/umls/licensedcontent/umlsarchives04.html#2018AA), 2 (source url), 3 (CUI from UMLS https://www.nlm.nih.gov/research/umls/licensedcontent/umlsknowledgesources.html)
	AttributeValue	varchar	
Indexes			
	Distribution	FieldOfStudyId	
	Sorting	FieldOfStudyId	
Foreign Keys			
Vir	Fk_FieldOfStudyExtendedAttributes_FieldsOfStudy (FieldOfStudyId) ref FieldsOfStudy (FieldOfStudyId)		

Table FieldsOfStudy

Base table for Fields of Study (advanced/FieldsOfStudy.txt)

	FieldOfStudyId	bigint	PRIMARY KEY
	Rank	varchar	FROZEN; no new ranks are being added.
	NormalizedName	varchar	UPDATED; slightly different normalization algorithm
	DisplayName	varchar	
	MainType	varchar	
	Level	integer	Possible values: 0-5
	PaperCount	bigint	
	PaperFamilyCount	bigint	FROZEN; same value as "paper_count.
	CitationCount	bigint	
	CreatedDate	varchar	
Indexes			
	Distribution	FieldOfStudyId	
	Sorting	FieldOfStudyId	

Table Journals

Base table for Journals (mag/Journals.txt)

	JournalId	bigint	PRIMARY KEY
	Rank	integer	FROZEN; no new ranks are being added
	NormalizedName	varchar	UPDATED; slightly different normalization algorithm
	DisplayName	varchar	
	Issn	varchar	UPDATED; the ISSN-L for the journal (see https://en.wikipedia.org/wiki/International_Standard_Serial_Number#Linking_ISSN)
	Issns	varchar	NEW; JSON list of all ISSNs for this journal (example: '["1469-5073","0016-6723"]')
	IsOa	boolean	NEW; TRUE when the journal is 100% OA
	IsInDoaj	boolean	NEW; TRUE when the journal is in DOAJ (see https://doaj.org/)
	Publisher	varchar	
	Webpage	varchar	
	PaperCount	bigint	
	PaperFamilyCount	bigint	FROZEN; same value as "paper_count
	CitationCount	bigint	
	CreatedDate	varchar	
	UpdatedDate	timestamp	NEW; set when changes are made going forward

Indexes

	Distribution	JournalId
	Sorting	JournalId

Table PaperAbstractsInvertedIndex

Inverted abstracts (nlp/PaperAbstractsInvertedIndex.txt.

	PaperId	bigint	FOREIGN KEY REFERENCES papers.papers_id
	IndexedAbstract	varchar	Inverted index, see https://en.wikipedia.org/wiki/Inverted_index

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperAbstractsInvertedIndex_Papers (PaperId) ref Papers (PaperId)

Table PaperAuthorAffiliations

Links between papers, authors, and affiliations/institutions. NOTE: It is possible to have multiple rows with same (PaperId, AuthorId, AffiliationId) when an author is associated with multiple affiliations. (mag/PaperAuthorAffiliations.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	AuthorId	bigint	FOREIGN KEY REFERENCES Authors.AuthorId
	AffiliationId	bigint	FOREIGN KEY REFERENCES Affiliations.AffiliationId
	AuthorSequenceNumber	integer	1-based author sequence number. 1: the 1st author listed on paper, 2: the 2nd author listed on paper, etc.
	OriginalAuthor	varchar	
	OriginalAffiliation	varchar	

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperAuthorAffiliations_Papers (PaperId) ref Papers (PaperId)
Vir	Fk_PaperAuthorAffiliations_Authors (AuthorId) ref Authors (AuthorId)
Vir	Fk_PaperAuthorAffiliations_Affiliations (AffiliationId) ref Affiliations (AffiliationId)

Table PaperCitationContexts

FROZEN; citation contexts (nlp/PaperCitationContexts.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES papers.papers_id
	PaperReferenceId	bigint	FOREIGN KEY REFERENCES papers.papers_id
	CitationContext	varchar	

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperCitationContexts_Papers (PaperId) ref Papers (PaperId)
Vir	Fk_PaperCitationContexts_Papers_0 (PaperReferenceId) ref Papers (PaperId)

Table PaperExtendedAttributes

Extra paper identifiers (mag/PaperExtendedAttributes.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	AttributeType	integer	Possible values: 1=PatentId, 2=PubMedId, 3=PmcId, 4=Alternative Title
	AttributeValue	varchar	

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperExtendedAttributes_Papers (PaperId) ref Papers (PaperId)

Table PaperFieldsOfStudy

Linking table from papers to fields, with score (advanced/PaperFieldsOfStudy.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	FieldOfStudyId	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
	Score	real	Confidence range between 0 and 1. Bigger number representing higher confidence.
	AlgorithmVersion	integer	NEW; version of algorithm to assign fields. Possible values: 1=old MAG (FROZEN), 2=OpenAlex

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperFieldsOfStudy_Papers (PaperId) ref Papers (PaperId)
Vir	Fk_PaperFieldsOfStudy_FieldsOfStudy (FieldOfStudyId) ref FieldsOfStudy (FieldOfStudyId)

Table PaperMeSH

MeSH headings assigned to the paper by PubMed (advanced/PaperMeSH.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	DescriptorUI	varchar	see https://en.wikipedia.org/wiki/Medical_Subject_Headings
	DescriptorName	varchar	see https://en.wikipedia.org/wiki/Medical_Subject_Headings
	QualifierUI	varchar	see https://en.wikipedia.org/wiki/Medical_Subject_Headings
	QualifierName	varchar	see https://en.wikipedia.org/wiki/Medical_Subject_Headings
	IsMajorTopic	boolean	see https://en.wikipedia.org/wiki/Medical_Subject_Headings

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Table PaperMeSH

Vir	Fk_PaperMeSH_Papers (PaperId) ref Papers (PaperId)		

Table PaperRecommendations

Paper recommendations with score (advanced/PaperRecommendations.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	RecommendedPaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	Score	real	Confidence range between 0 and 1. Bigger number representing higher confidence.

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperRecommendations_Papers (PaperId) ref Papers (PaperId)		
Vir	Fk_PaperRecommendations_Papers_0 (RecommendedPaperId) ref Papers (PaperId)		

Table PaperReferences

Paper references and, in reverse, citations (mag/PaperReferences.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	PaperReferenceId	bigint	FOREIGN KEY REFERENCES Papers.PaperId

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperReferences_Papers (PaperId) ref Papers (PaperId)		
Vir	Fk_PaperReferences_Papers_0 (PaperReferenceId) ref Papers (PaperId)		

Table PaperResources

FROZEN; no longer updated. Data and code urls associated with papers (mag/PaperResources.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES papers.papers_id
	ResourceType	integer	Bit flags: 1=Project, 2=Data, 4=Code
	ResourceUrl	varchar	Url of resource
	SourceUrl	varchar	List of urls associated with the project, used to derive resource_url
	RelationshipType	integer	Bit flags: 1=Own, 2=Cite

Indexes

	Distribution	PaperId
	Sorting	PaperId

Foreign Keys

Vir	Fk_PaperResources_Papers (PaperId) ref Papers (PaperId)		

Table PaperUrls

Urls for the paper (mag/PaperUrls.txt)

	PaperId	bigint	FOREIGN KEY REFERENCES Papers.PaperId
	SourceType	integer	Possible values: 1=Html, 2=Text, 3=Pdf, 4=Doc, 5=Ppt, 6=Xls, 8=Rtf, 12=Xml, 13=Rss, 20=Swf, 27=Ics, 31=Pub, 33=Ods, 34=Odp, 35=Odt, 36=Zip, 40=Mp3, 0/999/NULL=unknown
	SourceUrl	varchar	
	LanguageCode	varchar	
	UrlForLandingPage	varchar	NEW; URL for the landing page, when article is free to read

Table PaperUrls

	UrlForPdf	varchar	NEW; URL for the PDF, when article is free to read
	HostType	varchar	NEW; host type of the free-to-read URL, Possible values: publisher, repository
	Version	varchar	NEW; version of the free-to-read URL Possible values: submittedVersion, acceptedVersion, publishedVersion
	License	varchar	NEW; license of the free-to-read URL (example: cc0, cc-by, publisher-specific)
	RepositoryInstitution	varchar	NEW; name of repository host of URL
	OaiPmhId	varchar	NEW; OAH-PMH id of the repository record
Indexes			
	Distribution	PaperId	
	Sorting	PaperId	
Foreign Keys			
Vir	Fk_PaperUrls_Papers (PaperId) ref Papers (PaperId)		

Table Papers

Main data for papers (mag/Papers.txt)

	PaperId	bigint	PRIMARY KEY
	Rank	integer	FROZEN; no new ranks are being added
	Doi	varchar	Doi values are upper-cased per DOI standard at https://www.doi.org/doi_handbook/2_Numbering.html#2.4
	DocType	varchar	Possible values: Book, BookChapter, Conference, Dataset, Journal, Patent, Repository, Thesis, NULL : unknown. Patent is FROZEN; no new Patents are being added.
	Genre	varchar	NEW; Crossref ontology for work type such as "journal-article, posted-content, dataset, or book-chapter
	IsParatext	boolean	NEW; indicates front-matter. See https://support.unpaywall.org/support/solutions/articles/44001894783
	PaperTitle	varchar	UPDATED; slightly different normalization algorithm
	OriginalTitle	varchar	
	BookTitle	varchar	
	Year	integer	
	Date	varchar	
	OnlineDate	varchar	
	Publisher	varchar	
	JournalId	bigint	FOREIGN KEY references journals.journal_id
	ConferenceSeriesId	bigint	FROZEN; no longer updated, no new Conference Series are being added. FOREIGN KEY references conference_series.conference_series_id.
	ConferenceInstanceId	bigint	FROZEN; no longer updated, no new Conference Instances are being added. FOREIGN KEY references conference_instances.conference_instance_id.
	Volume	varchar	
	Issue	varchar	
	FirstPage	varchar	
	LastPage	varchar	
	ReferenceCount	bigint	
	CitationCount	bigint	
	EstimatedCitation	bigint	UPDATED; new algorithm
	OriginalVenue	varchar	
	FamilyId	bigint	FROZEN; no longer updated.
	FamilyRank	bigint	FROZEN; no longer updated.
	DocSubTypes	varchar	Possible values: Retracted Publication, Retraction Notice
	OaStatus	varchar	NEW; Possible values: closed, green, gold, hybrid, bronze (see https://en.wikipedia.org/wiki/Open_access#Colour_naming_system)
	BestUrl	varchar	NEW; An url for the paper (see paper_urls table for more)

Table Papers

	BestFreeUrl	varchar	NEW; Url of best legal free-to-read copy when it exists (see https://support.unpaywall.org/support/solutions/articles/44001943223)
	BestFreeVersion	varchar	NEW; Possible values: submittedVersion, acceptedVersion, publishedVersion
	DoiLower	varchar	NEW; lowercase doi for convenience linking to Unpaywall
	CreatedDate	varchar	
	UpdatedDate	timestamp	NEW; set when changes are made going forward
Indexes			
	Distribution	PaperId	
	Sorting	PaperId	
Foreign Keys			
Vir	Fk_Papers_Journals (JournalId) ref Journals (JournalId)		
Vir	Fk_Papers_ConferenceSeries (ConferenceSeriesId) ref ConferenceSeries (ConferenceSeriesId)		
Vir	Fk_Papers_ConferenceInstances (ConferenceInstanceId) ref ConferenceInstances (ConferenceInstanceId)		

Table RelatedFieldOfStudy

Relationships between fields of study (advanced/RelatedFieldOfStudy.txt)

	FieldOfStudyId1	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
	Type1	varchar	Possible values: general, disease, disease_cause, medical_treatment, symptom
	FieldOfStudyId2	bigint	FOREIGN KEY REFERENCES FieldsOfStudy.FieldOfStudyId
	Type2	varchar	Possible values: general, disease, disease_cause, medical_treatment, symptom
	Rank	real	FROZEN; no new ranks are being added.
Indexes			
	Distribution	FieldOfStudyId1	
	Sorting	FieldOfStudyId1	
Foreign Keys			
Vir	Fk_RelatedFieldOfStudy_FieldsOfStudy (FieldOfStudyId1) ref FieldsOfStudy (FieldOfStudyId)		
Vir	Fk_RelatedFieldOfStudy_FieldsOfStudy_0 (FieldOfStudyId2) ref FieldsOfStudy (FieldOfStudyId)		