REFERENCE_CATEGORY

REF_CATEGORY_ID	NUMBER
CATEGORY_NAME	VARCHAR2(80)
PRIORITY	NUMBER
SORT_ORDER	NUMBER

SUBMISSION

SUBMISSION_ID	NUMBER
REFERENCE_ID	NUMBER
SUBMITTER_NAME	VARCHAR2(85)
SUBMISSION_DATE	DATE
SUBMISSION_AUTHORS	VARCHAR2(2000)
SUBMISSION_AFFILIATIONS	VARCHAR2(2000)
SUBMISSION_TITLE	VARCHAR2(2400)
SUBMISSION_ABSTRACT	VARCHAR2(4000)

JOURNAL

JOURNAL_ID	NUMBER
JOURNAL_TITLE	VARCHAR2(2000)
JOURNAL_ISSN	VARCHAR2(15)
MEDLINE_TA	VARCHAR2(200)

REFERENCE_CATEGORY_ASSOC

REFERENCE_ID	NUMBER
REF_CATEGORY_ID	NUMBER

REFERENCE_LINKING

REFERENCE_ID	NUMBER
REF_REFERENCE_ID	NUMBER
COMMENTS	VARCHAR2(2000)

Physical Data Model (legend)

Project : IEDB	
Model : IEDB_PUBLIC	
Author : JRC	Version 2.2 4/15/2011

ARTICLE

ARTICLE_ID	NUMBER
REFERENCE_ID	NUMBER
JOURNAL_ID	NUMBER
JOURNAL_VOLUME	VARCHAR2(15)
JOURNAL_ISSUE	VARCHAR2(20)
ARTICLE_DATE	VARCHAR2(25)
ARTICLE_PAGES	VARCHAR2(35)
ARTICLE_TITLE	VARCHAR2(2000)
ARTICLE_AUTHORS	VARCHAR2(4000)
ARTICLE_ABSTRACT	VARCHAR2(4000)
ARTICLE_AFFILIATIONS	VARCHAR2(2000)
ARTICLE_CHEMICAL_LIST	VARCHAR2(4000)
ARTICLE_MESH_HEADINGS_LIST	VARCHAR2(4000)
MEDLINE_DATE	VARCHAR2(10)
COMMENTS	VARCHAR2(2000)
PUBMED_ID	VARCHAR2(20)

REFERENCE

REFERENCE_ID	NUMBER
REFERENCE_TYPE	VARCHAR2(15)
CURATION_KEYWORDS	VARCHAR2(2000)

COMPLEX : 2

COMPLEX_ID	NUMBER
REFERENCE_ID	NUMBER
ATOM_PAIRS	CLOB
PDB_ID	VARCHAR2(35)
PDB_CELL_CONTACT_AREA	NUMBER
E_CONTACT_AREA	NUMBER
E_VIEWER_STATUS	VARCHAR2(25)
AB_C1_PDB_CHAIN	VARCHAR2(10)
AB_C2_PDB_CHAIN	VARCHAR2(10)
MHC_C1_PDB_CHAIN	VARCHAR2(10)
MHC_C2_PDB_CHAIN	VARCHAR2(10)
TCR_C1_PDB_CHAIN	VARCHAR2(10)
TCR_C2_PDB_CHAIN	VARCHAR2(10)
ANT_PDB_CHAIN	VARCHAR2(10)
E_PDB_CHAIN	VARCHAR2(1000)
AB_ANT_RESIDUES	VARCHAR2(1000)
E_MHC_RESIDUES	VARCHAR2(1000)
E_TCR_RESIDUES	VARCHAR2(1000)
MHC_E_RESIDUES	VARCHAR2(1000)
MHC_TCR_RESIDUES	VARCHAR2(1000)
TCR_E_RESIDUES	VARCHAR2(1000)
TCR_MHC_RESIDUES	VARCHAR2(1000)
CALC_ATOM_PAIRS	CLOB
CALC_E_CONTACT_AREA	FLOAT(126)
CALC_CELL_CONTACT_AREA	FLOAT(126)
CALC_E_RESIDUES	VARCHAR2(1000)
CALC_AB_ANT_RESIDUES	VARCHAR2(1000)
CALC_E_MHC_RESIDUES	VARCHAR2(1000)
CALC_E_TCR_RESIDUES	VARCHAR2(1000)
CALC_MHC_E_RESIDUES	VARCHAR2(1000)
CALC_MHC_TCR_RESIDUES	VARCHAR2(1000)
CALC_TCR_E_RESIDUES	VARCHAR2(1000)
CALC_TCR_MHC_RESIDUES	VARCHAR2(1000)
COMMENTS	VARCHAR2(2000)

CURATED_EPITOPE : 2

CURATED_EPITOPE_ID	NUMBER
REFERENCE_ID	NUMBER
E_NAME	VARCHAR2(85)
E_LOCATION	VARCHAR2(100)
E_REGION_DOMAIN_FLAG	VARCHAR2(20)
E_COMMENTS	VARCHAR2(2000)
E_OBJECT_ID	NUMBER
RELATED_OBJECT_ID	NUMBER
RELATED_OBJECT_TYPE	VARCHAR2(200)
E_EV	VARCHAR2(100)
E_REF_START	NUMBER
E_REF_END	NUMBER
E_REF_REGION	VARCHAR2(2000)

MHC_ELUTION

MHC_ELUTION_ID	NUMBER
REFERENCE_ID	NUMBER
CURATED_EPITOPE_ID	NUMBER
AS_LOCATION	VARCHAR2(100)
AS_TYPE_ID	NUMBER
AS_CHAR_VALUE	VARCHAR2(50)
AS_NUM_VALUE	NUMBER
AS_INEQUALITY	VARCHAR2(5)
AS_NUM_SUBJECTS	NUMBER
AS_NUM_RESPONDED	NUMBER
AS_RESPONSE_FREQUENCY	NUMBER
AS_IMMUNIZATION_COMMENTS	VARCHAR2(2000)
AS_COMMENTS	VARCHAR2(2000)
H_ORGANISM_ID	NUMBER
H_SEX	VARCHAR2(10)
H_AGE	VARCHAR2(10)
H_MHC_TYPES_PRESENT	VARCHAR2(250)
IV1_PROCESS_TYPE	VARCHAR2(85)
IV1_ADJUVANTS	VARCHAR2(400)
IV1_ROUTE	VARCHAR2(85)
IV1_DOSE_SCHEDULE	VARCHAR2(250)
IV1_DISEASE_ID	NUMBER
IV1_DISEASE_STAGE	VARCHAR2(85)
IV1_IMM_TYPE	VARCHAR2(250)
IV1_IMM_REF_NAME	VARCHAR2(250)
IV1_IMM_OBJECT_ID	NUMBER
IV1_IMM_EV	VARCHAR2(85)
IV1_CON_OBJECT_ID	NUMBER
IVT_PROCESS_TYPE	VARCHAR2(250)
IVT_IMM_TYPE	VARCHAR2(250)
IVT_IMM_REF_NAME	VARCHAR2(250)
IVT_IMM_OBJECT_ID	NUMBER
IVT_IMM_EV	VARCHAR2(100)
IVT_CON_OBJECT_ID	NUMBER
MHC_ALLELE_NAME	VARCHAR2(85)
MHC_ALLELE_EV	VARCHAR2(100)
ANT_TYPE	VARCHAR2(250)
ANT_OBJECT_ID	NUMBER
APC_CELL_TYPE	VARCHAR2(85)
APC_ORIGIN	VARCHAR2(85)

CURATED_EPITOPE : 1

CURATED_EPITOPE_ID	NUMBER
REFERENCE_ID	NUMBER
E_NAME	VARCHAR2(85)
E_LOCATION	VARCHAR2(100)
E_REGION_DOMAIN_FLAG	VARCHAR2(20)
E_COMMENTS	VARCHAR2(2000)
E_OBJECT_ID	NUMBER
RELATED_OBJECT_ID	NUMBER
RELATED_OBJECT_TYPE	VARCHAR2(200)
E_EV	VARCHAR2(100)
E_REF_START	NUMBER
E_REF_END	NUMBER
E_REF_REGION	VARCHAR2(2000)

TCELL

TCELL_ID	NUMBER
REFERENCE_ID	NUMBER
CURATED_EPITOPE_ID	NUMBER
AS_LOCATION	VARCHAR2(100)
AS_TYPE_ID	NUMBER
AS_CHAR_VALUE	VARCHAR2(50)
AS_NUM_VALUE	NUMBER
AS_INEQUALITY	VARCHAR2(5)
AS_NUM_SUBJECTS	NUMBER
AS_NUM_RESPONDED	NUMBER
AS_RESPONSE_FREQUENCY	NUMBER
AS_IMMUNIZATION_COMMENTS	VARCHAR2(2000)
AS_COMMENTS	VARCHAR2(2000)
H_ORGANISM_ID	NUMBER
H_SEX	VARCHAR2(10)
H_AGE	VARCHAR2(10)
H_MHC_TYPES_PRESENT	VARCHAR2(250)
TCR_NAME	VARCHAR2(85)
TCR_C1_MOL_TYPE	VARCHAR2(85)
TCR_C2_MOL_TYPE	VARCHAR2(85)
IV1_PROCESS_TYPE	VARCHAR2(85)
IV1_ADJUVANTS	VARCHAR2(400)
IV1_ROUTE	VARCHAR2(85)
IV1_DOSE_SCHEDULE	VARCHAR2(250)
IV1_DISEASE_ID	NUMBER
IV1_DISEASE_STAGE	VARCHAR2(85)
IV1_IMM_TYPE	VARCHAR2(250)
IV1_IMM_REF_NAME	VARCHAR2(250)
IV1_IMM_OBJECT_ID	NUMBER
IV1_IMM_EV	VARCHAR2(85)
IV1_CON_OBJECT_ID	NUMBER
IV2_PROCESS_TYPE	VARCHAR2(85)
IV2_ADJUVANTS	VARCHAR2(400)
IV2_ROUTE	VARCHAR2(85)
IV2_DOSE_SCHEDULE	VARCHAR2(250)
IV2_DISEASE_ID	NUMBER
IV2_DISEASE_STAGE	VARCHAR2(85)
IV2_IMM_TYPE	VARCHAR2(250)
IV2_IMM_REF_NAME	VARCHAR2(250)
IV2_IMM_OBJECT_ID	NUMBER
IV2_IMM_EV	VARCHAR2(85)
IV2_CON_OBJECT_ID	NUMBER
IVT_PROCESS_TYPE	VARCHAR2(85)
IVT_RESPONDER_CELL_TYPE	VARCHAR2(85)
IVT_STIMULATOR_CELL_TYPE	VARCHAR2(85)
IVT_IMM_TYPE	VARCHAR2(85)
IVT_IMM_REF_NAME	VARCHAR2(85)
IVT_IMM_OBJECT_ID	NUMBER
IVT_IMM_EV	VARCHAR2(85)
IVT_CON_OBJECT_ID	NUMBER
ADT_IV_PROCESS_TYPE	VARCHAR2(85)
ADT_IV_ADJUVANTS	VARCHAR2(400)
ADT_IV_ROUTE	VARCHAR2(85)
ADT_IV_DOSE_SCHEDULE	VARCHAR2(250)
ADT_IV_DISEASE_ID	NUMBER
ADT_IV_DISEASE_STAGE	VARCHAR2(85)
ADT_IV_IMM_TYPE	VARCHAR2(250)
ADT_IV_IMM_REF_NAME	VARCHAR2(250)
ADT_IV_IMM_OBJECT_ID	NUMBER
ADT_IV_IMM_EV	VARCHAR2(100)
ADT_IV_CON_OBJECT_ID	NUMBER
ADT_TCR_NAME	VARCHAR2(85)
ADT_TCR_C1_MOL_TYPE	VARCHAR2(85)
ADT_TCR_C2_MOL_TYPE	VARCHAR2(85)
ADT_H_ORGANISM_ID	NUMBER
ADT_H_AGE	VARCHAR2(10)
ADT_H_SEX	VARCHAR2(10)
ADT_H_MHC_TYPES_PRESENT	VARCHAR2(250)
ADT_EFFECTOR_CELL_TYPE	VARCHAR2(85)
ADT_EFFECTOR_TISSUE_TYPE	VARCHAR2(85)
ADT_EFFECTOR_ORIGIN	VARCHAR2(85)
ADT_COMMENTS	VARCHAR2(2000)
EFFECTOR_CELL_TYPE	VARCHAR2(85)
EFFECTOR_TISSUE_TYPE	VARCHAR2(85)
EFFECTOR_ORIGIN	VARCHAR2(85)
MHC_ALLELE_NAME	VARCHAR2(85)
MHC_ALLELE_EV	VARCHAR2(1)
MHC_AUTOLOGOUS	VARCHAR2(5)
APC_CELL_TYPE	VARCHAR2(85)
APC_TISSUE_TYPE	VARCHAR2(85)
APC_ORIGIN	VARCHAR2(85)
APC_H_ORGANISM_ID	NUMBER
APC_H_AGE	VARCHAR2(10)
APC_H_SEX	VARCHAR2(10)
ANT_TYPE	VARCHAR2(250)
ANT_REF_NAME	VARCHAR2(250)
ANT_OBJECT_ID	NUMBER
ANT_EV	VARCHAR2(100)
ANT_CON_OBJECT_ID	NUMBER
TCR_OBJECT_ID	NUMBER
ADT_TCR_OBJECT_ID	NUMBER

COMPLEX : 1

COMPLEX_ID	NUMBER
REFERENCE_ID	NUMBER
ATOM_PAIRS	CLOB
PDB_ID	VARCHAR2(35)
PDB_CELL_CONTACT_AREA	NUMBER
E_CONTACT_AREA	NUMBER
E_VIEWER_STATUS	VARCHAR2(25)
AB_C1_PDB_CHAIN	VARCHAR2(10)
AB_C2_PDB_CHAIN	VARCHAR2(10)
MHC_C1_PDB_CHAIN	VARCHAR2(10)
MHC_C2_PDB_CHAIN	VARCHAR2(10)
TCR_C1_PDB_CHAIN	VARCHAR2(10)
TCR_C2_PDB_CHAIN	VARCHAR2(10)
ANT_PDB_CHAIN	VARCHAR2(10)
E_PDB_CHAIN	VARCHAR2(1000)
E_RESIDUES	VARCHAR2(1000)
AB_ANT_RESIDUES	VARCHAR2(1000)
E_MHC_RESIDUES	VARCHAR2(1000)
E_TCR_RESIDUES	VARCHAR2(1000)
MHC_E_RESIDUES	VARCHAR2(1000)
MHC_TCR_RESIDUES	VARCHAR2(1000)
TCR_E_RESIDUES	VARCHAR2(1000)
TCR_MHC_RESIDUES	VARCHAR2(1000)
CALC_ATOM_PAIRS	CLOB
CALC_E_CONTACT_AREA	FLOAT(126)
CALC_CELL_CONTACT_AREA	FLOAT(126)
CALC_E_RESIDUES	VARCHAR2(1000)
CALC_AB_ANT_RESIDUES	VARCHAR2(1000)
CALC_E_MHC_RESIDUES	VARCHAR2(1000)
CALC_E_TCR_RESIDUES	VARCHAR2(1000)
CALC_MHC_E_RESIDUES	VARCHAR2(1000)
CALC_MHC_TCR_RESIDUES	VARCHAR2(1000)
CALC_TCR_E_RESIDUES	VARCHAR2(1000)
CALC_TCR_MHC_RESIDUES	VARCHAR2(1000)
COMMENTS	VARCHAR2(2000)

MHC_BIND

MHC_BIND_ID	NUMBER
REFERENCE_ID	NUMBER
CURATED_EPITOPE_ID	NUMBER
COMPLEX_ID	NUMBER
AS_LOCATION	VARCHAR2(100)
AS_TYPE_ID	NUMBER
AS_CHAR_VALUE	VARCHAR2(50)
AS_NUM_VALUE	NUMBER
AS_INEQUALITY	VARCHAR2(5)
AS_COMMENTS	VARCHAR2(2000)
MHC_ALLELE_NAME	VARCHAR2(85)

MHC_ALLELE_RESTRICTION

MHC_ALLELE_RESTRICTION_ID	NUMBER
DISPLAYED_RESTRICTION	VARCHAR2(35)
SYNONYMS	VARCHAR2(85)
INCLUDES	VARCHAR2(85)
RESTRICTION_LEVEL	VARCHAR2(35)
ORGANISM	VARCHAR2(150)
ORGANISM_NCBI_TAX_ID	NUMBER
CLASS	VARCHAR2(10)
HAPLOTYPE	VARCHAR2(35)
LOCUS	VARCHAR2(35)
SEROTYPE	VARCHAR2(35)
MOLECULE	VARCHAR2(35)
CHAIN_I_TYPE	VARCHAR2(35)
CHAIN_I_NAME	VARCHAR2(35)
CHAIN_I_ACCESSION	VARCHAR2(15)
CHAIN_I_SEQUENCE	CLOB
CHAIN_II_TYPE	VARCHAR2(35)
CHAIN_II_NAME	VARCHAR2(35)
CHAIN_II_ACCESSION	VARCHAR2(15)
CHAIN_II_SEQUENCE	CLOB
MOLECULE_SEQUENCE_EVIDENC_CODE	VARCHAR2(35)
SEQ_SOURCE	VARCHAR2(15)

ASSAY_TYPE : 2

ASSAY_TYPE_ID	NUMBER
CATEGORY	VARCHAR2(50)
ASSAY_TYPE	VARCHAR2(250)
RESPONSE	VARCHAR2(85)
UNITS	VARCHAR2(30)

BCELL

BCELL_ID	NUMBER
REFERENCE_ID	NUMBER
CURATED_EPITOPE_ID	NUMBER
AS_LOCATION	VARCHAR2(100)
AS_TYPE_ID	NUMBER
AS_CHAR_VALUE	VARCHAR2(50)
AS_NUM_VALUE	NUMBER
AS_INEQUALITY	VARCHAR2(5)
AS_NUM_SUBJECTS	NUMBER
AS_NUM_RESPONDED	NUMBER
AS_RESPONSE_FREQUENCY	NUMBER
AS_IMMUNIZATION_COMMENTS	VARCHAR2(2000)
AS_COMMENTS	VARCHAR2(2000)
AS_ANT_CONFORMATION	VARCHAR2(85)
H_ORGANISM_ID	NUMBER
H_SEX	VARCHAR2(10)
H_AGE	VARCHAR2(10)
H_MHC_TYPES_PRESENT	VARCHAR2(250)
IV1_PROCESS_TYPE	VARCHAR2(85)
IV1_ADJUVANTS	VARCHAR2(400)
IV1_ROUTE	VARCHAR2(85)
IV1_DOSE_SCHEDULE	VARCHAR2(250)
IV1_DISEASE_ID	NUMBER
IV1_DISEASE_STAGE	VARCHAR2(85)
IV1_IMM_TYPE	VARCHAR2(250)
IV1_IMM_REF_NAME	VARCHAR2(250)
IV1_IMM_OBJECT_ID	NUMBER
IV1_IMM_EV	VARCHAR2(100)
IV1_CON_OBJECT_ID	NUMBER
IV2_PROCESS_TYPE	VARCHAR2(85)
IV2_ADJUVANTS	VARCHAR2(400)
IV2_ROUTE	VARCHAR2(250)
IV2_DOSE_SCHEDULE	VARCHAR2(250)
IV2_DISEASE_ID	NUMBER
IV2_DISEASE_STAGE	VARCHAR2(85)
IV2_IMM_TYPE	VARCHAR2(250)
IV2_IMM_REF_NAME	VARCHAR2(250)
IV2_IMM_OBJECT_ID	NUMBER
IV2_IMM_EV	VARCHAR2(3500)
IV2_CON_OBJECT_ID	NUMBER
AB_NAME	VARCHAR2(200)
AB_TYPE	VARCHAR2(35)
AB_MATERIALS_ASSAYED	VARCHAR2(85)
AB_IMMUNOGLOBULIN_DOMAIN	VARCHAR2(85)
AB_C1_MOL_TYPE	VARCHAR2(85)
AB_C2_MOL_TYPE	VARCHAR2(85)
ADT_IV_PROCESS_TYPE	VARCHAR2(85)
ADT_IV_ADJUVANTS	VARCHAR2(400)
ADT_IV_ROUTE	VARCHAR2(35)
ADT_IV_DOSE_SCHEDULE	VARCHAR2(250)
ADT_IV_DISEASE_ID	NUMBER
ADT_IV_DISEASE_STAGE	VARCHAR2(85)
ADT_IV_IMM_TYPE	VARCHAR2(250)
ADT_IV_IMM_REF_NAME	VARCHAR2(250)
ADT_IV_IMM_OBJECT_ID	NUMBER
ADT_IV_IMM_EV	VARCHAR2(100)
ADT_IV_CON_OBJECT_ID	NUMBER
ADT_AB_NAME	VARCHAR2(200)
ADT_AB_TYPE	VARCHAR2(35)
ADT_AB_MATERIALS_ASSAYED	VARCHAR2(85)
ADT_AB_IMMUNOGLOBULIN_DOMAIN	VARCHAR2(85)
ADT_AB_C1_MOL_TYPE	VARCHAR2(85)
ADT_AB_C2_MOL_TYPE	VARCHAR2(85)
ADT_H_ORGANISM_ID	NUMBER
ADT_H_AGE	VARCHAR2(10)
ADT_H_SEX	VARCHAR2(10)
ADT_H_MHC_TYPES_PRESENT	VARCHAR2(250)
ADT_COMMENTS	VARCHAR2(2000)
ANT_TYPE	VARCHAR2(250)
ANT_REF_NAME	VARCHAR2(250)
ANT_OBJECT_ID	NUMBER
ANT_EV	VARCHAR2(100)
ANT_CON_OBJECT_ID	NUMBER
COMPLEX_ID	NUMBER
AB_OBJECT_ID	NUMBER
ADT_AB_OBJECT_ID	NUMBER

OBJECT : 1

OBJECT_ID	NUMBER
REFERENCE_ID	NUMBER
OBJECT_TYPE	VARCHAR2(85)
OBJECT_SUB_TYPE	VARCHAR2(200)
OBJECT_DESCRIPTION	VARCHAR2(535)
DERIVATIVE_TYPE	VARCHAR2(500)
ORGANISM_ID	NUMBER
ORGANISM2_ID	NUMBER
REGION	VARCHAR2(1000)
STARTING_POSITION	NUMBER
ENDING_POSITION	NUMBER
CELL_NAME	VARCHAR2(85)
CELL_TYPE	VARCHAR2(85)
TISSUE_TYPE	VARCHAR2(85)
ORIGIN	VARCHAR2(85)
MOL1_SEQ	VARCHAR2(2000)
MOL1_MODIFIED_SEQ	VARCHAR2(2000)
MOL1_MODIFICATION	VARCHAR2(85)
MOL1_SOURCE_ID	NUMBER
MOL2_MODIFIED_SEQ	VARCHAR2(4000)
MOL2_MODIFICATION	VARCHAR2(85)
MOL2_SOURCE_ID	NUMBER
MULT_CHAIN_MOL_NAME	VARCHAR2(85)

OBJECT : ANT

OBJECT_ID	NUMBER
REFERENCE_ID	NUMBER
OBJECT_TYPE	VARCHAR2(85)
OBJECT_SUB_TYPE	VARCHAR2(200)
OBJECT_DESCRIPTION	VARCHAR2(535)
DERIVATIVE_TYPE	VARCHAR2(500)
ORGANISM_ID	NUMBER
ORGANISM2_ID	NUMBER
REGION	VARCHAR2(1000)
STARTING_POSITION	NUMBER
ENDING_POSITION	NUMBER
CELL_NAME	VARCHAR2(85)
CELL_TYPE	VARCHAR2(85)
TISSUE_TYPE	VARCHAR2(85)
ORIGIN	VARCHAR2(85)
MOL1_SEQ	VARCHAR2(2000)
MOL1_MODIFIED_SEQ	VARCHAR2(2000)
MOL1_SOURCE_ID	NUMBER
MOL2_MODIFIED_SEQ	VARCHAR2(4000)
MOL2_MODIFICATION	NUMBER
MOL2_SOURCE_ID	NUMBER
MULT_CHAIN_MOL_NAME	VARCHAR2(85)

OBJECT : 2

OBJECT_ID	NUMBER
REFERENCE_ID	NUMBER
OBJECT_TYPE	VARCHAR2(85)
OBJECT_SUB_TYPE	VARCHAR2(200)
OBJECT_DESCRIPTION	VARCHAR2(535)
DERIVATIVE_TYPE	VARCHAR2(500)
ORGANISM_ID	NUMBER
ORGANISM2_ID	NUMBER
REGION	VARCHAR2(1000)
STARTING_POSITION	NUMBER
ENDING_POSITION	NUMBER
CELL_NAME	VARCHAR2(85)
CELL_TYPE	VARCHAR2(85)
TISSUE_TYPE	VARCHAR2(85)
ORIGIN	VARCHAR2(85)
MOL1_SEQ	VARCHAR2(2000)
MOL1_MODIFIED_SEQ	VARCHAR2(2000)
MOL1_SOURCE_ID	NUMBER
MOL2_MODIFIED_SEQ	VARCHAR2(4000)
MOL2_MODIFICATION	VARCHAR2(85)
MOL2_SOURCE_ID	NUMBER
MULT_CHAIN_MOL_NAME	VARCHAR2(85)

SOURCE : 1

SOURCE_ID	NUMBER
ACCESSION	VARCHAR2(15)
DATABASE	VARCHAR2(15)
NAME	VARCHAR2(250)
ALIASES	VARCHAR2(500)
CHEMICAL_TYPE	VARCHAR2(85)
SOURCE_DATE	DATE
SEQUENCE	CLOB
SMILES_STRUCTURE	VARCHAR2(3500)
SYNONYMS	CLOB
ORGANISM_ID	NUMBER
SMILES_IMAGE	BLOB

SOURCE : 2

SOURCE_ID	NUMBER
ACCESSION	VARCHAR2(15)
DATABASE	VARCHAR2(15)
NAME	VARCHAR2(250)
ALIASES	VARCHAR2(500)
CHEMICAL_TYPE	VARCHAR2(85)
SOURCE_DATE	DATE
SEQUENCE	CLOB
SMILES_STRUCTURE	VARCHAR2(3500)
SYNONYMS	CLOB
ORGANISM_ID	NUMBER
SMILES_IMAGE	BLOB

ORGANISM : 2

ORGANISM_ID	NUMBER
PARENT_TAX_ID	NUMBER
ACTIVE_NODE	NUMBER
PATH	VARCHAR2(500)
RANK	VARCHAR2(50)

ORGANISM : 1

ORGANISM_ID	NUMBER
PARENT_TAX_ID	NUMBER
ACTIVE_NODE	NUMBER
PATH	VARCHAR2(500)
RANK	VARCHAR2(50)

ORGANISM_NAMES

ORGANISM_ID	NUMBER
NAME_TXT	VARCHAR2(150)
NAME_CLASS	VARCHAR2(50)

ASSAY_TYPE : 1

ASSAY_TYPE_ID	NUMBER
CATEGORY	VARCHAR2(50)
ASSAY_TYPE	VARCHAR2(250)
RESPONSE	VARCHAR2(85)
UNITS	VARCHAR2(30)

EPITOPE

EPITOPE_ID	NUMBER
DESCRIPTION	VARCHAR2(535)
LINEAR_PEPTIDE_SEQ	VARCHAR2(2000)
LINEAR_PEPTIDE_MODIFIED_SEQ	VARCHAR2(4000)
LINEAR_PEPTIDE_MODIFICATION	VARCHAR2(4000)
NON_AA_SOURCE_ID	NUMBER
DISC_SOURCE_ID	NUMBER
DISC_REGION	VARCHAR2(4000)
SEQUENCE	CLOB
DISC_MODIFICATION	VARCHAR2(4000)
MC_REGION	VARCHAR2(4000)
MC_MOL1_SOURCE_ID	NUMBER
MC_MOL1_MODIFICATION	VARCHAR2(85)
MC_MOL2_SOURCE_ID	NUMBER
MC_MOL2_MODIFICATION	VARCHAR2(85)

DISEASE : 1

DISEASE_ID	NUMBER
DISEASE_NAME	VARCHAR2(200)
SYNONYMS	CLOB
ACCESSION	VARCHAR2(15)
DISEASE_SOURCE	VARCHAR2(15)

DISEASE : 2

DISEASE_ID	NUMBER
DISEASE_NAME	VARCHAR2(200)
SYNONYMS	CLOB
ACCESSION	VARCHAR2(15)
DISEASE_SOURCE	VARCHAR2(15)

EPITOPE_OBJECT

EPITOPE_ID	NUMBER
OBJECT_ID	NUMBER
SOURCE_ANTIGEN_ACCESSION	VARCHAR2(50)
SOURCE_ORGANISM_ORG_ID	NUMBER