



# MaizeGDB Table Definition

ANNOTATION	Column Name	Data Type	Data Length
	ADD_DATE	DATE	7
	ANN_AUTHOR_ID	NUMBER	22
	AUTHOR_EMAIL	VARCHAR2	100
	AUTO_NUM	NUMBER	22
	CURATION_LVL	NUMBER	22
	ID	NUMBER	22
	MEMO	VARCHAR2	2000
	MOD_DATE	DATE	7

ANNOTATION_AUTHOR	Column Name	Data Type	Data Length
	CURATION_LVL	NUMBER	22
	DATE_ADDED	DATE	7
	EMAIL	VARCHAR2	100
	FIRST_NAME	VARCHAR2	40
	ID	NUMBER	22
	LAST_NAME	VARCHAR2	40
	PASSWORD	VARCHAR2	50
	PASSWORD_HASH	VARCHAR2	32
	PASSWORD_REMINDER	VARCHAR2	50
	PERSON_ID	NUMBER	22
	USERNAME	VARCHAR2	10

ANNOTATION_SEQUENCE	Column Name	Data Type	Data Length
	ADD_DATE	DATE	7
	ANN_AUTHOR_ID	NUMBER	22
	AUTHOR_EMAIL	VARCHAR2	100
	AUTO_NUM	NUMBER	22
	CURATION_LVL	NUMBER	22
	MEMO	VARCHAR2	2000
	MOD_DATE	DATE	7
	SEQ_ID	VARCHAR2	30

AUDIT_FIELDS	Column Name	Data Type	Data Length
	AUDIT_TRAIL_ID	NUMBER	22
	AUTO_NUM	NUMBER	22
	CHANGE_TYPE	VARCHAR2	2
	CURRENT_VALUE	VARCHAR2	1000
	FIELD_NAME	VARCHAR2	40
	OLD_VALUE	VARCHAR2	1000
	RECORD_ID	NUMBER	22
	TABLE_NAME	VARCHAR2	50

AUDIT_TRAIL	Column Name	Data Type	Data Length
	ANNOTATOR_ID	NUMBER	22
	AUDIT_TRAIL_ID	NUMBER	22
	DATE_ENTERED	DATE	7
	ID_NUM	NUMBER	22
	SUBMODULE	VARCHAR2	75

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CITY_STATE_ZIP	Column Name	Data Type	Data Length
	CITY	VARCHAR2	30
	STATE	VARCHAR2	2
	ZIP	VARCHAR2	5

CLONE_LIBRARY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	AVAILABLE_FROM	NUMBER	22
	HOST_STRAIN	VARCHAR2	120
	ID	NUMBER	22
	MADE_BY	NUMBER	22
	NAME	VARCHAR2	120
	SOURCE_DNA	NUMBER	22
	SPECIES	NUMBER	22
	STAGE	NUMBER	22
	TISSUE	NUMBER	22
	VECTOR	NUMBER	22

CTL	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DATE_ADDED	DATE	7
	DB_USER	VARCHAR2	20
	LAST_UPDATE	DATE	7
	NEXT_UPDATE	DATE	7

DESCRIPTION	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DESCRIPTION	VARCHAR2	150
	ID	NUMBER	22

DNA_RNA_ISOLATION_PREP	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	COMMENTS	VARCHAR2	1000
	ID	NUMBER	22
	NAME	VARCHAR2	20
	PREPARED_BY	NUMBER	22
	SPECIES	NUMBER	22
	STOCK	NUMBER	22
	TISSUE	NUMBER	22

ENVIRONMENT	Column Name	Data Type	Data Length
	ALTITUDE	VARCHAR2	255
	COUNTRY	NUMBER	22
	ID	NUMBER	22
	LATITUDE	VARCHAR2	255
	LOCALE	VARCHAR2	255
	LONGITUDE	VARCHAR2	255
	NAME	VARCHAR2	255
	PLANTING_DATE	DATE	7

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STATE_PROVINCE	NUMBER	22
TYPE	NUMBER	22

ENVIRONMENT_COMPOSITE_OF	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	COMPOSITE_OF	NUMBER	22
	ID	NUMBER	22

ENZ_CAT_REACTION	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	200
	ENZYME	NUMBER	22
	ID	NUMBER	22
	NAME	VARCHAR2	100
	REACTION	NUMBER	22
	SPECIES	NUMBER	22
	SUBSTRATE_SPEC	VARCHAR2	50

ENZ_CAT_REACTION_NXT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	NEXT_STEP	NUMBER	22

ENZ_CAT_REACTION_PREV	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PREVIOUS_STEP	NUMBER	22

EXT_DB_KEY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DB_PERSON	NUMBER	22
	EVIDENCE	NUMBER	22
	EXT_DB_COMMENT	VARCHAR2	150
	ID	NUMBER	22
	KEY	VARCHAR2	100
	REFERENCE	NUMBER	22

GEL_PATTERN	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	500
	ENZYME	NUMBER	22
	FINGERPRINT	VARCHAR2	60
	ID	NUMBER	22
	NAME	VARCHAR2	120
	PERSON	NUMBER	22
	PROBE	NUMBER	22
	STOCK	NUMBER	22
	UNITS	NUMBER	22

GEL_PATTERN_BANDS	Column Name	Data Type	Data Length
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AUTO_NUM	NUMBER	22
BAND_ID	VARCHAR2	5
BAND_SIZE	NUMBER	22
FREQUENCY	NUMBER	22
ID	NUMBER	22
MORPH_ID	VARCHAR2	5
NTSYS	VARCHAR2	10
SASS	VARCHAR2	10
SIZE_ERROR	NUMBER	22

GEL_PATTERN_HAPLOALLELES	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	HAPLOALLELE	NUMBER	22
	ID	NUMBER	22
	MORPH_ID	VARCHAR2	3
	STOCK	NUMBER	22

GEL_PATTERN_PROBED_DNA	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PROBED_DNA	NUMBER	22

GEL_PATTERN_REFERENCE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	CONTENTS	NUMBER	22
	ID	NUMBER	22
	REFERENCE	NUMBER	22

GENE_PROD_EC_NUM	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EC_NUM	VARCHAR2	20
	ID	NUMBER	22

GENE_PROD_EXPRESSION_INDUCE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	CONDITION	NUMBER	22
	EVIDENCE	NUMBER	22
	ID	NUMBER	22

GENE_PROD_LINKS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	BIN	NUMBER	22
	ENZYME	VARCHAR2	20
	EVIDENCE	VARCHAR2	50
	ID	NUMBER	22
	LOCUS	NUMBER	22
	SWISSPROT	VARCHAR2	20

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GENE_PROD_LOCALIZATION	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	LOCALIZATION	NUMBER	22

GENE_PROD_METABOLIC_CONSTIT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	METABOLIC_CONSTITUENT	NUMBER	22

GENE_PROD_METABOLIC_PATHWAY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	METABOLIC_PATHWAY	NUMBER	22

GENE_PROD_MOTIFS_FEATURE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DESCRIPTION	VARCHAR2	120
	ID	NUMBER	22
	TYPE	NUMBER	22

GENE_PRODUCT	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	500
	HOLOENZYME_SUBSTRUCT	VARCHAR2	10
	ID	NUMBER	22
	NAME	VARCHAR2	100
	SPECIES	NUMBER	22
	TYPE	NUMBER	22

GO_ASSOCIATION	Column Name	Data Type	Data Length
	GENE_PRODUCT_ID	NUMBER	22
	ID	NUMBER	22
	IS_NOT	NUMBER	22
	ROLE_GROUP	NUMBER	22
	TERM_ID	NUMBER	22

GO_DBXREF	Column Name	Data Type	Data Length
	ID	NUMBER	22
	XREF_DBNAME	VARCHAR2	55
	XREF_DESC	VARCHAR2	255
	XREF_KEY	VARCHAR2	255
	XREF_KEYTYPE	VARCHAR2	32

GO_EVIDENCE	Column Name	Data Type	Data Length
	ASSOCIATION_ID	NUMBER	22
	CODE	VARCHAR2	8
	DBXREF_ID	NUMBER	22

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ID	NUMBER	22
SEQ_ACC	VARCHAR2	255

GO_GENE_PRODUCT	Column Name	Data Type	Data Length
	DBXREF_ID	NUMBER	22
	FULL_NAME	VARCHAR2	200
	ID	NUMBER	22
	SPECIES_ID	NUMBER	22
	SYMBOL	VARCHAR2	128

GO_GENE_PRODUCT_COUNT	Column Name	Data Type	Data Length
	CODE	VARCHAR2	8
	PRODUCT_COUNT	NUMBER	22
	SPECIESDBNAME	VARCHAR2	55
	TERM_ID	NUMBER	22

GO_GENE_PRODUCT_PROPERTY	Column Name	Data Type	Data Length
	GENE_PRODUCT_ID	NUMBER	22
	PROPERTY_KEY	VARCHAR2	64
	PROPERTY_VAL	VARCHAR2	255

GO_GENE_PRODUCT_SEQ	Column Name	Data Type	Data Length
	GENE_PRODUCT_ID	NUMBER	22
	IS_PRIMARY_SEQ	NUMBER	22
	SEQ_ID	NUMBER	22

GO_GENE_PRODUCT_SYNONYM	Column Name	Data Type	Data Length
	GENE_PRODUCT_ID	NUMBER	22
	PRODUCT_SYNONYM	VARCHAR2	255

GO_GRAPH_PATH	Column Name	Data Type	Data Length
	DISTANCE	NUMBER	22
	ID	NUMBER	22
	TERM1_ID	NUMBER	22
	TERM2_ID	NUMBER	22

GO_GRAPH_PATH2TERM	Column Name	Data Type	Data Length
	GRAPH_PATH_ID	NUMBER	22
	RANK	NUMBER	22
	TERM_ID	NUMBER	22

GO_INSTANCE_DATA	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	RELEASE_NAME	VARCHAR2	255
	RELEASE_NOTES	VARCHAR2	2000
	RELEASE_TYPE	VARCHAR2	255

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GO_SEQ	Column Name	Data Type	Data Length
	DESCRIPTION	VARCHAR2	255
	DISPLAY_ID	VARCHAR2	64
	ID	NUMBER	22
	MD5CHECKSUM	VARCHAR2	32
	MOLTYPE	VARCHAR2	25
	SEQ	VARCHAR2	200
	SEQ_LEN	NUMBER	22
	TIMESTAMP	NUMBER	22

GO_SEQ_DBXREF	Column Name	Data Type	Data Length
	DBXREF_ID	NUMBER	22
	SEQ_ID	NUMBER	22

GO_SEQ_PROPERTY	Column Name	Data Type	Data Length
	ID	NUMBER	22
	PROPERTY_KEY	VARCHAR2	64
	PROPERTY_VAL	VARCHAR2	255
	SEQ_ID	NUMBER	22

GO_SOURCE_AUDIT	Column Name	Data Type	Data Length
	SOURCE_MTIME	NUMBER	22
	SOURCE_PATH	VARCHAR2	255
	SOURCE_TYPE	VARCHAR2	255

GO_SPECIES	Column Name	Data Type	Data Length
	COMMON_NAME	VARCHAR2	255
	GENUS	VARCHAR2	55
	ID	NUMBER	22
	LINEAGE_STRING	VARCHAR2	2000
	NCBI_TAXA_ID	NUMBER	22
	SPECIES	VARCHAR2	55

GO_TERM	Column Name	Data Type	Data Length
	ACC	VARCHAR2	32
	ID	NUMBER	22
	IS_OBSOLETE	NUMBER	22
	IS_ROOT	NUMBER	22
	NAME	VARCHAR2	255
	TERM_TYPE	VARCHAR2	55

GO_TERM_AUDIT	Column Name	Data Type	Data Length
	TERM_ID	NUMBER	22
	TERM_LOADTIME	NUMBER	22

GO_TERM_DBXREF	Column Name	Data Type	Data Length
	DBXREF_ID	NUMBER	22



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IS_FOR_DEFINITION	NUMBER	22
TERM_ID	NUMBER	22

GO_TERM_DEFINITION	Column Name	Data Type	Data Length
	DBXREF_ID	NUMBER	22
	REFERENCE	VARCHAR2	255
	TERM_COMMENT	VARCHAR2	2000
	TERM_DEFINITION	VARCHAR2	2000
	TERM_ID	NUMBER	22

GO_TERM_SYNONYM	Column Name	Data Type	Data Length
	ACC_SYNONYM	NUMBER	22
	TERM_ID	NUMBER	22
	TERM_SYNONYM	VARCHAR2	255

GO_TERM2TERM	Column Name	Data Type	Data Length
	ID	NUMBER	22
	RELATIONSHIP_TYPE_ID	NUMBER	22
	TERM1_ID	NUMBER	22
	TERM2_ID	NUMBER	22

ID_NUM	Column Name	Data Type	Data Length
	ADD_BY	NUMBER	22
	ADD_DATE	DATE	7
	COMMENTS	VARCHAR2	100
	CURATION_LVL	NUMBER	22
	CURATION_LVL_CHANGE	DATE	7
	DEL	VARCHAR2	1
	ID	NUMBER	22
	MOD_BY	NUMBER	22
	MOD_DATE	DATE	7
	TEMP_DATA	VARCHAR2	70
	TYPE_TERM	NUMBER	22

ID_REFERENCE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	CONTENTS	NUMBER	22
	ID	NUMBER	22
	REFERENCE	NUMBER	22

ID_SEQ	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DEL	VARCHAR2	1
	ID	NUMBER	22
	KEY	VARCHAR2	112
	SEQ	VARCHAR2	50

ID_SEQ_MISMATCH	Column Name	Data Type	Data Length
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AUTO_NUM	NUMBER	22
ID	NUMBER	22
SEQ	VARCHAR2	10

INSTITUTION	Column Name	Data Type	Data Length
	ADDRESS1	VARCHAR2	80
	ADDRESS2	VARCHAR2	40
	ATTN	VARCHAR2	10
	CITY	VARCHAR2	40
	COUNTRY	VARCHAR2	40
	ID	NUMBER	22
	INST_NAME	VARCHAR2	40
	LAST_UPDATE	DATE	7
	MEETING	VARCHAR2	10
	MNL_LIST	VARCHAR2	10
	MNL_PD_THROUGH	VARCHAR2	10
	MNL_PD_THRU	VARCHAR2	10
	MNL_STATUS	VARCHAR2	10
	POSTAL_CODE	VARCHAR2	10
	STATE	VARCHAR2	10
	URL	VARCHAR2	100

JOURNAL	Column Name	Data Type	Data Length
	ID	NUMBER	22
	ISSN	VARCHAR2	15
	JUMP_URL	VARCHAR2	100
	NAME	VARCHAR2	200

JOURNAL_EDITORS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EDITOR	NUMBER	22
	ID	NUMBER	22

KARYOTYPIC_VARIATION	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	255
	ID	NUMBER	22
	LINKAGE_GROUP	NUMBER	22
	NAME	VARCHAR2	120
	TYPE	NUMBER	22

KARYOVAR_TRAIT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PHENOTYPIC_EFFECT	NUMBER	22

LINKAGE_GROUP	Column Name	Data Type	Data Length
	CHR#	NUMBER	22
	COMMENTS	VARCHAR2	200
	ID	NUMBER	22

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MORPHOLOGY	NUMBER	22
NAME	VARCHAR2	50
SPECIES	NUMBER	22
TTL_LEN_CM	NUMBER	22
TTL_LEN_KB	NUMBER	22
TYPE	NUMBER	22

LNK_GRP_CHROMO_DIMEN	Column Name	Data Type	Data Length
	ARM_RATIO	NUMBER	22
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	OBSERVATION_STAGE	NUMBER	22

LOCUS	Column Name	Data Type	Data Length
	ARM	NUMBER	22
	FULL_NAME	VARCHAR2	65
	ID	NUMBER	22
	INTERNAL_MAP	NUMBER	22
	LINKAGE_GROUP	NUMBER	22
	NAME	VARCHAR2	120
	ORIG_ARM	NUMBER	22
	PLANT_WIDE_GENE_NAME	VARCHAR2	40
	SPECIES	NUMBER	22
	TYPE	NUMBER	22

LOCUS_COORDINATES	Column Name	Data Type	Data Length
	ARBITRARY	NUMBER	22
	AUTO_NUM	NUMBER	22
	BACK_BONE	NUMBER	22
	BIN	NUMBER	22
	BIN2	NUMBER	22
	DEL	VARCHAR2	1
	G	NUMBER	22
	GM	NUMBER	22
	ID	NUMBER	22
	MAP	NUMBER	22
	MAXV	NUMBER	22
	MINV	NUMBER	22
	ORIG_MAP	NUMBER	22
	STATUS	NUMBER	22
	VALUE	NUMBER	22
	VALUEM	NUMBER	22

LOCUS_DETECTED_BY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	METHOD	NUMBER	22
	PERSON	NUMBER	22
	PROBE_ID	NUMBER	22
	REFERENCE	NUMBER	22
	RELATION	NUMBER	22

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LOCUS_EXPRESSION_INDUCED_BY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EXPRESS_INDUCED_BY	NUMBER	22
	ID	NUMBER	22

LOCUS_FUNCTION	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EST	NUMBER	22
	GENE_PRODUCT	NUMBER	22
	ID	NUMBER	22
	PHENOTYPE	NUMBER	22

LOCUS_GENE_PRODUCTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EVIDENCE	VARCHAR2	70
	EVIDENCE_TERM	NUMBER	22
	GENE_PRODUCT	NUMBER	22
	ID	NUMBER	22

LOCUS_LENGTH	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	LENGTH	NUMBER	22
	UNITS	NUMBER	22

MAP	Column Name	Data Type	Data Length
	COORDINATES	NUMBER	22
	ID	NUMBER	22
	LINKAGE_GROUP	NUMBER	22
	NAME	VARCHAR2	120
	SOURCE	NUMBER	22

MAP_FISH	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	BAC_ID	NUMBER	22
	BAC_SPECIES	NUMBER	22
	IMAGE	VARCHAR2	30
	LOCUS_ID	NUMBER	22
	MAIZE_PROBE	NUMBER	22
	MAP_ID	NUMBER	22
	NAME	VARCHAR2	50
	PROBE_SELECT_METHOD	NUMBER	22
	PROBE_TYPE	NUMBER	22
	REFERENCE	NUMBER	22

MAP_INCLUDES_MAP	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22

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MAP1	NUMBER	22
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MAP_PANELS_OF_STOCKS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PANELS_OF_STOCK	NUMBER	22

MAP_SCORES	Column Name	Data Type	Data Length
	BIN	NUMBER	22
	COMMENTS	VARCHAR2	500
	ENZYME	NUMBER	22
	ID	NUMBER	22
	LINKAGE_GROUP	NUMBER	22
	MAP_SCORE_COMMENTS	VARCHAR2	100
	MAP_SCORE_DATE	DATE	7
	NAME	VARCHAR2	75
	OTHER_MARKER	NUMBER	22
	PANEL_OF_STOCKS	NUMBER	22
	PARENT1_PATTERN	NUMBER	22
	PARENT2_PATTERN	NUMBER	22
	PROBE	NUMBER	22
	PROBED_SITE	NUMBER	22
	SCORES_123	VARCHAR2	400
	SUBMITTED_BY	NUMBER	22

MAP_SCORES_INCLUDE_MAPS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	BY1	NUMBER	22
	ID	NUMBER	22
	MAP	NUMBER	22

MEMO	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MEMO	VARCHAR2	2500
	TYPE_TERM	NUMBER	22

META_PATH	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	500
	ID	NUMBER	22
	METABOLIC_PROCESS	NUMBER	22
	NAME	VARCHAR2	70
	SUMMARY_REACTION	NUMBER	22

META_PATH_STEPS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	STEP_ENZYME	NUMBER	22
	STEP_NUM	NUMBER	22

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META_STEP_LOCUS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	LOCUS_ID	NUMBER	22
	LOCUS_ROLE	NUMBER	22
	STEP	NUMBER	22

PANEL_OF_STOCKS	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	200
	ID	NUMBER	22
	N	NUMBER	22
	NAME	VARCHAR2	100
	PANEL_TYPE	NUMBER	22
	PARENT_1	NUMBER	22
	PARENT_1_ROLE	NUMBER	22
	PARENT_2	NUMBER	22

PANEL_OF_STOCKS_PARENT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	ONEORTWO	NUMBER	22
	PARENT	NUMBER	22

PERSON	Column Name	Data Type	Data Length
	ADDRESS	VARCHAR2	230
	AIRMAIL	VARCHAR2	1
	CITY	VARCHAR2	30
	COMMENTS	VARCHAR2	200
	COUNTRY	VARCHAR2	30
	DEPT_MAIL_STOP	VARCHAR2	30
	EMAIL_LIST	VARCHAR2	20
	ID	NUMBER	22
	INSTITUTION	NUMBER	22
	LAST_UPDATE	DATE	7
	MEETING	VARCHAR2	1
	MNL_LIST	VARCHAR2	2
	MNL_PAID_THROUGH	VARCHAR2	4
	MNL_PD_THRU	VARCHAR2	10
	MNL_STATUS	VARCHAR2	1
	NAME	VARCHAR2	120
	NAME_FIRST	VARCHAR2	40
	NAME_INITIAL	VARCHAR2	12
	NAME_LAST	VARCHAR2	40
	NAME_MI	VARCHAR2	1
	POSTAL_CODE	VARCHAR2	30
	STATE	VARCHAR2	30
	SUFFIX	VARCHAR2	4
	TYPE	NUMBER	22

PERSON_ATTRIBUTE	Column Name	Data Type	Data Length
	ATTRIBUTE	NUMBER	22

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AUTO_NUM	NUMBER	22
ID	NUMBER	22

PERSON_EMAIL	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EMAIL_ADDRESS	VARCHAR2	60
	ID	NUMBER	22

PERSON_GROUP	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	GROUP_DESCRIPTION	VARCHAR2	40
	ID	NUMBER	22
	MINOR_GROUP	NUMBER	22

PERSON_INSTITUTION	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	INSTITUTION_ID	NUMBER	22

PERSON_INTEREST	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PERSON_INTEREST	VARCHAR2	50

PERSON_PHONE_NUM	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EXT	VARCHAR2	10
	ID	NUMBER	22
	PHONE_NUM	VARCHAR2	30
	TYPE	VARCHAR2	10

PERSON_URL_PREFIX	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	URL_PREFIX	VARCHAR2	200

PERSON_USER_GROUP	Column Name	Data Type	Data Length
	ADDED_BY	NUMBER	22
	ADDED_DATE	DATE	7
	AUTO_NUM	NUMBER	22
	GROUP_DESC	VARCHAR2	20
	GROUP_ID	NUMBER	22
	ID	NUMBER	22
	INDIVIDUAL_DESC	VARCHAR2	20
	INDIVIDUAL_ID	NUMBER	22
	MODIFIED_BY	NUMBER	22
	MODIFIED_DATE	DATE	7

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PHENOTYPE	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	500
	ID	NUMBER	22
	INHERITANCE	NUMBER	22
	INTENSITY	NUMBER	22
	NAME	VARCHAR2	120
	TRAIT	NUMBER	22
	VALUE	NUMBER	22

PHENOTYPE_BODY_PARTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	BODY_PART	NUMBER	22
	ID	NUMBER	22

PHENOTYPE_DEV_STAGES	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DEV_STAGE	NUMBER	22
	ID	NUMBER	22

PHENOTYPE_METABOLIC_PATHWAY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	METABOLIC_PATHWAY	NUMBER	22

PHENOTYPE_TRAIT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	INHERITANCE	NUMBER	22
	INTENSITY	NUMBER	22
	METHOD	NUMBER	22
	TRAIT	NUMBER	22
	VALUE	NUMBER	22

PRIMER	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	COMMENTS	VARCHAR2	500
	ID	NUMBER	22
	NAME	VARCHAR2	50
	SEQUENCE	VARCHAR2	50
	SUBMITTED_BY	NUMBER	22
	SUBMITTED_DATE	DATE	7
	TM	NUMBER	22
	TYPE	NUMBER	22

PRIMER_ISOSCHIZOMER	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	COMMENTS	VARCHAR2	500
	ID	NUMBER	22



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ISOSCHIZOMER	NUMBER	22
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PROBE	Column Name	Data Type	Data Length
	AVAILABLE_FROM	NUMBER	22
	ID	NUMBER	22
	INSERT_SIZE	NUMBER	22
	MNEMONIC	VARCHAR2	10
	NAME	VARCHAR2	40
	NOTE_WORTHY_COND	VARCHAR2	10
	PREP	NUMBER	22
	PREPARED_BY	NUMBER	22
	PROCEDURE1	NUMBER	22
	QUALITY	NUMBER	22
	REPEAT	VARCHAR2	100
	SPECIES	NUMBER	22
	TYPE	NUMBER	22
	VECTOR	NUMBER	22

PROBE_BIN	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	BIN	NUMBER	22
	G	NUMBER	22
	ID	NUMBER	22
	LOCUS_ID	NUMBER	22
	MAP	NUMBER	22

PROBE_COPIES	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	COPIES	NUMBER	22
	DATE_ADD	DATE	7
	ID	NUMBER	22
	SOURCE	NUMBER	22

PROBE_GENE_PRODUCT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EVIDENCE	VARCHAR2	255
	GENE_PRODUCT	NUMBER	22
	ID	NUMBER	22

PROBE_SOURCE_DNA	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	END1	NUMBER	22
	ENZYME_PRIMER	NUMBER	22
	ID	NUMBER	22

PROBE_SOURCE_OF_D	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EXLIBRIS	NUMBER	22
	ID	NUMBER	22

# MaizeGDB Table Definition

STOCK	NUMBER	22
TISSUE	NUMBER	22
TYPE	NUMBER	22

PROBE_VECTOR_CUTT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	END1	NUMBER	22
	ENZYME	NUMBER	22
	ID	NUMBER	22
	PROBE_SIZES	VARCHAR2	100

PROPERTIES	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PROPERTY	NUMBER	22

QTL_EXP	Column Name	Data Type	Data Length
	ID	NUMBER	22
	MAPPING_PANEL	NUMBER	22
	MARKER_SUMMARY	VARCHAR2	300
	NAME	VARCHAR2	100
	PROG_GENOTYPE_EVAL	VARCHAR2	200
	PROG_TRAIT_EVAL	VARCHAR2	300

QTL_EXP_CONTRIB	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	CONTRIB_DATE	DATE	7
	CONTRIB_ROLE	NUMBER	22
	CONTRIBUTOR	NUMBER	22
	ID	NUMBER	22

QTL_EXP_DETECTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	QTL	NUMBER	22

QTL_EXP_EVALUATIONS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EVALUATION	NUMBER	22
	ID	NUMBER	22

QTL_EXP_MAP	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MAP	NUMBER	22

QTL_EXP_REFERENCES	Column Name	Data Type	Data Length
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# MaizeGDB Table Definition

AUTO_NUM	NUMBER	22
CONTENTS	NUMBER	22
ID	NUMBER	22
REFERENCE	NUMBER	22

QTL_LINK_ANALYSIS	Column Name	Data Type	Data Length
	EVAL_SUMMARY	NUMBER	22
	GENETIC_MODEL	VARCHAR2	150
	ID	NUMBER	22
	METHOD	VARCHAR2	500
	NAME	VARCHAR2	255
	NUM_DETECTED	NUMBER	22
	R_2_ALL_QTL	NUMBER	22
	SIGNIFICANCE_MEASURE	NUMBER	22

QTL_LINK_EXP	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EFFECT	VARCHAR2	20
	HIGH_SCORE_VAR	NUMBER	22
	ID	NUMBER	22
	QTL	NUMBER	22
	R	NUMBER	22
	SIGNIFICANCE	NUMBER	22

REACTION	Column Name	Data Type	Data Length
	COMMENTS	VARCHAR2	200
	ID	NUMBER	22
	NAME	VARCHAR2	120

REACTION_EC	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	EC	VARCHAR2	50
	ID	NUMBER	22

REACTION_PRODUCTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	N	NUMBER	22
	REACTION_ROLE	NUMBER	22
	SUBSTANCE	NUMBER	22

REACTION_REACTANTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	N	NUMBER	22
	REACTION_ROLE	NUMBER	22
	SUBSTANCE	NUMBER	22

# MaizeGDB Table Definition

RECOMB	Column Name	Data Type	Data Length
	CROSS_TYPE	NUMBER	22
	G_NUM_OF_MARKERS	NUMBER	22
	ID	NUMBER	22
	NAME	VARCHAR2	50
	ORDER_1	NUMBER	22
	QUALITY	NUMBER	22
	TOTAL_PROGENY	NUMBER	22

RECOMB_ALLELES	Column Name	Data Type	Data Length
	ALLELE	NUMBER	22
	AUTO_NUM	NUMBER	22
	CHROMOSOME	NUMBER	22
	ID	NUMBER	22
	LOCUS	NUMBER	22
	PARENT	NUMBER	22

RECOMB_CLASS_FREQ	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	GENOTYPE	VARCHAR2	20
	ID	NUMBER	22
	N	NUMBER	22

RECOMB_DATA_OVERLAY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	RECOMB_DATA_1	NUMBER	22
	UNCERTAIN	NUMBER	22

RECOMB_FREQ	Column Name	Data Type	Data Length
	AFTER	NUMBER	22
	AUTO_NUM	NUMBER	22
	BEFORE	NUMBER	22
	FREQUENCY	NUMBER	22
	HALDANE	NUMBER	22
	ID	NUMBER	22
	KOSAMBI	NUMBER	22
	SE	NUMBER	22

RECOMB_LOCI	Column Name	Data Type	Data Length
	ALLELE	NUMBER	22
	AUTO_NUM	NUMBER	22
	CUMULATIVE_CM	NUMBER	22
	ERROR	NUMBER	22
	ID	NUMBER	22
	INTERVAL_CM	NUMBER	22
	LOCUS	NUMBER	22
	PARENT_ROLE	NUMBER	22
	SORT_ORDER	NUMBER	22

# MaizeGDB Table Definition

RECOMB_LOCI_2	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	LOCUS	NUMBER	22

REFERENCE	Column Name	Data Type	Data Length
	ABSTRACT	VARCHAR2	10
	AUTHOR_DESC	VARCHAR2	100
	CC_IN_AUTHORS	VARCHAR2	255
	ID	NUMBER	22
	IN1	NUMBER	22
	INSTITUTION	NUMBER	22
	ISSN	VARCHAR2	20
	NAME	VARCHAR2	250
	PAGES	VARCHAR2	20
	PUBLISHER	NUMBER	22
	REF_COMMENTS	VARCHAR2	100
	REF_NUMBER	VARCHAR2	10
	TITLE	VARCHAR2	255
	TO_1	NUMBER	22
	TYPE	NUMBER	22
	VOLUME	VARCHAR2	25
	YEAR	NUMBER	22

REFERENCE_ABSTRACT	Column Name	Data Type	Data Length
	ABSTRACT_1	VARCHAR2	4000
	ABSTRACT_2	VARCHAR2	4000
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22

REFERENCE_AUTHORS	Column Name	Data Type	Data Length
	AUTHOR	NUMBER	22
	AUTHOR_TYPE	NUMBER	22
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	ORDER1	NUMBER	22

RELATION	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	METHOD	NUMBER	22
	PERSON	NUMBER	22
	REFERENCE	NUMBER	22
	RELATED_ID	NUMBER	22
	RELATION	NUMBER	22

SPECIES	Column Name	Data Type	Data Length
	ID	NUMBER	22
	SPECIES	VARCHAR2	50

# MaizeGDB Table Definition

SPECIES_NUCLEAR	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DNA_CONTENT	VARCHAR2	40
	HAPLOID_NUMBER	NUMBER	22
	ID	NUMBER	22

STOCK	Column Name	Data Type	Data Length
	AVAILABLE_FROM	NUMBER	22
	COMMENTS	VARCHAR2	500
	COOP_ID	VARCHAR2	10
	COUNTRY	VARCHAR2	20
	CROP_SCI_CLASS	NUMBER	22
	DEVELOPER	NUMBER	22
	FOCUS_LINKAGE_GROUP	NUMBER	22
	ID	NUMBER	22
	INCREASING	NUMBER	22
	MKTCLASS	NUMBER	22
	NAME	VARCHAR2	75
	NCGRP_BACKUP	NUMBER	22
	PEDIGREE	VARCHAR2	250
	SPECIES	NUMBER	22
	STATE_PROVINCE	VARCHAR2	20
	TYPE	NUMBER	22
	TYPE_N	VARCHAR2	50
	YEAR	NUMBER	22

STOCK_COEFF_PARENT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	G	NUMBER	22
	ID	NUMBER	22
	STOCK1	NUMBER	22

STOCK_GENOTYPIC_VAR	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	CERTAINTY	NUMBER	22
	ID	NUMBER	22
	PHASE	NUMBER	22
	VARIATION	NUMBER	22

STOCK_GRIN	Column Name	Data Type	Data Length
	AC_ID	NUMBER	22
	AC_IMPT	VARCHAR2	10
	AC_NO	NUMBER	22
	AC_P	VARCHAR2	4
	ACS	VARCHAR2	4
	AG_NAME	VARCHAR2	20
	AUTO_NUM	NUMBER	22
	COUNTRY	VARCHAR2	30
	GENUS	VARCHAR2	30
	PLANT_ID	VARCHAR2	60

# MaizeGDB Table Definition

SEARCH_ID	VARCHAR2	40
SITE	VARCHAR2	4
STATE	VARCHAR2	20
STOCK_ID	NUMBER	22
TOP_NAME	VARCHAR2	1
UNIFORM	VARCHAR2	10

STOCK_GRIN_AVAILABLE	Column Name	Data Type	Data Length
	AC_ID	NUMBER	22
	AC_NO	NUMBER	22
	ACP	VARCHAR2	6
	ACS	VARCHAR2	4
	D_QUANT	NUMBER	22

STOCK_KARYOTYPIC_VAR	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	KARYOTYPIC_VAR	NUMBER	22

STOCK_LIST	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	STOCK_DESCRIPTION	VARCHAR2	80
	STOCK_NAME	VARCHAR2	60
	STOCK_SYNONYM	VARCHAR2	60
	STOCK_TYPE	VARCHAR2	30

STOCK_MOLECULAR_VAR	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MOLECULAR_VAR	NUMBER	22

STOCK_PANEL_OF_STOCKS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PANEL_OF_STOCKS	NUMBER	22

STOCK_PHENOTYPES	Column Name	Data Type	Data Length
	ATTRIBUTABLE_TO	NUMBER	22
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PHENOTYPE	NUMBER	22

SYNONYMS	Column Name	Data Type	Data Length
	AUTHORITY	NUMBER	22
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	SYNONYMS	VARCHAR2	120

# MaizeGDB Table Definition

TERM	Column Name	Data Type	Data Length
	ID	NUMBER	22
	NAME	VARCHAR2	120
	TERM_COMMENTS	VARCHAR2	4000
	TYPE	NUMBER	22

TRAIT_ANALYSIS	Column Name	Data Type	Data Length
	ENVIRONMENT	NUMBER	22
	EXPERIMENTAL_DESIGN	VARCHAR2	300
	HERITABILITY	NUMBER	22
	ID	NUMBER	22
	METHOD	VARCHAR2	450
	NAME	VARCHAR2	200
	QTL_EXP	NUMBER	22
	TRAIT	NUMBER	22
	TRAIT_SCORES	VARCHAR2	1600
	TRAIT_SCORES_FORMAT	VARCHAR2	100

TRAIT_ANALYSIS_ANOVA	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DF	NUMBER	22
	F	NUMBER	22
	ID	NUMBER	22
	MEAN_SQUARE	NUMBER	22
	P	VARCHAR2	10
	SOURCE	VARCHAR2	30

TRAIT_ANALYSIS_LINKAGE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	QTL_LINK	NUMBER	22

TRAIT_ANALYSIS_PARENT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MEAN	NUMBER	22
	PARENT	NUMBER	22
	STD_ERROR	NUMBER	22

TRAIT_ANALYSIS_PROGENY	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	KURTOSIS	NUMBER	22
	MEAN	NUMBER	22
	PROGENY	VARCHAR2	25
	SKEWNESS	NUMBER	22
	STD_ERROR	NUMBER	22



# MaizeGDB Table Definition

VAR_MUTAGEN	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MUTAGEN	NUMBER	22

VAR_MUTATION_TYPE	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	MUTATION_TYPE	NUMBER	22

VAR_PHENO_EFFECTS	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	PHENO_EFFECT	NUMBER	22

VAR_POINT	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	POINT	NUMBER	22

VAR_RELATED_ALLELES	Column Name	Data Type	Data Length
	ALLELE	NUMBER	22
	AUTO_NUM	NUMBER	22
	ID	NUMBER	22
	RELATION	NUMBER	22

VARIATION	Column Name	Data Type	Data Length
	ALLELEDESCRIPTOR	VARCHAR2	40
	DOMINANCE	NUMBER	22
	FUNCTION	VARCHAR2	2
	ID	NUMBER	22
	INBRED	NUMBER	22
	NAME	VARCHAR2	50
	PROGENITORSTOCK	NUMBER	22
	SPECIES	NUMBER	22
	SUBMITTED_BY	NUMBER	22
	TYPE	NUMBER	22
	VARIATIONOF	NUMBER	22
	VIABILITY	NUMBER	22

WEB_DATA	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	DB	NUMBER	22
	ID	NUMBER	22
	URL	VARCHAR2	200

WEB_IMAGE	Column Name	Data Type	Data Length
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# MaizeGDB Table Definition

AUTO_NUM	NUMBER	22
CAPTION	VARCHAR2	2500
ID	NUMBER	22
PART	VARCHAR2	30
URL	VARCHAR2	200

Z_ARRAY	Column Name	Data Type	Data Length
	ARRAY_NUMBER	VARCHAR2	25
	AUTO_NUM	NUMBER	22
	COLUMN_NUMBER_WITHIN_GENE	NUMBER	22
	GI	VARCHAR2	50
	ROW_NUMBER_WITHIN_SUB	NUMBER	22
	SUB_ARRAY_COL_NUMBER	NUMBER	22
	SUB_ARRAY_ROW_NUMBER	NUMBER	22

Z_ARRAY_CONTROL	Column Name	Data Type	Data Length
	ARRAYS	VARCHAR2	80
	AUTO_NUM	NUMBER	22
	CONTROL_NUM	NUMBER	22
	GENE	VARCHAR2	50
	LENGTH	VARCHAR2	20
	LOCATION	VARCHAR2	50
	ORIGIN	VARCHAR2	50
	PLASMID	VARCHAR2	50
	PRIMER	VARCHAR2	50
	VECTOR	VARCHAR2	20

Z_ARRAY_LIBRARY	Column Name	Data Type	Data Length
	ARRAY_LIBRARY_NUMBER	VARCHAR2	25
	ARRAYS_PRINTED_ON	VARCHAR2	100
	AUTO_NUM	NUMBER	22
	DNP	VARCHAR2	10
	GEL_QUALITY1	VARCHAR2	20
	GEL_QUALITY2	VARCHAR2	20
	GEL_SIZE1	VARCHAR2	10
	GEL_SIZE2	VARCHAR2	10
	GENBANK_ACC	VARCHAR2	10
	GI	VARCHAR2	50

Z_EMS_PHENOTYPE	Column Name	Data Type	Data Length
	ADULT_CATEGORIES	VARCHAR2	255
	ADULT_CATEGORIES_COPY	VARCHAR2	255
	ADULT_CATEGORIES_COPY	VARCHAR2	255
	ADULT_COOPERATOR	VARCHAR2	255
	ADULT_COUNT	VARCHAR2	50
	ADULT_FIELD_LOCATION	VARCHAR2	50
	ADULT_IMAGE	VARCHAR2	50
	ADULT_IMAGE1	VARCHAR2	50
	ADULT_IMAGE2	VARCHAR2	50
	ADULT_PHENOTYPE_SUMM	VARCHAR2	255

# MaizeGDB Table Definition

ADULT_SCREEN_DATE1	VARCHAR2	50
ADULT_SCREEN_DATE2	VARCHAR2	50
AUTO_NUM	VARCHAR2	10
BOX_NUM	VARCHAR2	50
DETAILED_SEEDLING_NOTE	VARCHAR2	255
FEW_K	VARCHAR2	50
FEW_K_MSG	VARCHAR2	255
FIELD	VARCHAR2	50
NEW_ADULT_MUTANT	VARCHAR2	50
OF_ADULT_INTEREST	VARCHAR2	50
OF_SEED_INTEREST	VARCHAR2	50
OF_SEEDLING_INTEREST	VARCHAR2	50
PEDIGREE	VARCHAR2	255
RANGE	VARCHAR2	255
REPRODUCTIVE_ADULT_PH	VARCHAR2	255
REPRODUCTIVE_ADULT_PH	VARCHAR2	255
SEED_CATEGORIES	VARCHAR2	255
SEED_CATEGORIES_COPY	VARCHAR2	255
SEED_CATEGORIES_COPY2	VARCHAR2	255
SEED_COMMENTS	VARCHAR2	255
SEED_PHENOTYPE_SUMMA	VARCHAR2	255
SEED_PHENOTYPES	VARCHAR2	255
SEED_SCREEN_DATE	VARCHAR2	50
SEEDLING_CATEGORIES	VARCHAR2	255
SEEDLING_CATEGORIES_C	VARCHAR2	255
SEEDLING_CATEGORIES_C	VARCHAR2	255
SEEDLING_PHEN_SUMMARY	VARCHAR2	255
SEEDLING_REVIEWER	VARCHAR2	255
SEEDLING_SCREEN_NOTES	VARCHAR2	255
SOURCE	VARCHAR2	50
VEGETATIVE_ADULT_PHEN	VARCHAR2	255
VEGETATIVE_ADULT_PHEN_	VARCHAR2	255
YR	VARCHAR2	10

Z_GENE_EST_TUG	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	E_END	VARCHAR2	10
	E_START	VARCHAR2	10
	ESTTUG_ID	VARCHAR2	50
	G_END	VARCHAR2	10
	G_START	VARCHAR2	10
	GENE_ID	VARCHAR2	50
	GENESEQER_SCORE	VARCHAR2	10
	SIGN	VARCHAR2	2

Z_GSSCONTIG_GSS	Column Name	Data Type	Data Length
	G_END	VARCHAR2	10
	G_START	VARCHAR2	10
	GSS_ID	VARCHAR2	25
	GSSCONTIG_ID	VARCHAR2	50
	SIGN	VARCHAR2	2

# MaizeGDB Table Definition

Z_PHENOTYPE	Column Name	Data Type	Data Length
	ADULT_CATEGORIES	VARCHAR2	255
	ADULT_COMMENTS	VARCHAR2	255
	ADULT_FIELD_LOCATION	VARCHAR2	255
	ADULT_IMAGE1	VARCHAR2	50
	ADULT_IMAGE2	VARCHAR2	50
	ADULT_PHENOTYPE_SUMM	VARCHAR2	255
	ADULT_SCREEN_DATE_1	VARCHAR2	50
	ADULT_SCREEN_DATE_2	VARCHAR2	50
	ADULT_SCREEN_DATE_3	VARCHAR2	50
	AUTO_NUM	NUMBER	22
	DETAILED_SEEDLING_NOTE	VARCHAR2	255
	FEMALE_COLUMN_NUM	VARCHAR2	50
	FEMALE_ROW_NUM	VARCHAR2	50
	FEW_K_MSG	VARCHAR2	255
	GRID_LETTER	VARCHAR2	50
	GRID_LOCATION	VARCHAR2	20
	GRID_YEAR	VARCHAR2	10
	GRIDCOLLOC	VARCHAR2	10
	GRIDLOC	VARCHAR2	50
	GRIDROWLOC	VARCHAR2	10
	MALE_FAMILY_NUM	VARCHAR2	50
	MALE_IND_NUM	VARCHAR2	50
	MALE_LETTER	VARCHAR2	50
	MUTANTINSEEDBACKGROU	VARCHAR2	255
	MUTINADULTBACKGROUND	VARCHAR2	255
	MUTINSEEDLINGBACKGROU	VARCHAR2	255
	NEW_ADULT_MUTANT	VARCHAR2	10
	NEW_SEEDLING_MUTANT	VARCHAR2	10
	NEW_SEEDS_MUTANT	VARCHAR2	10
	REPRODUCTIVE_ADULT_PH	VARCHAR2	255
	REPRODUCTIVE_ADULT_PH	VARCHAR2	255
	REPRODUCTIVE_ADULT_PH	VARCHAR2	255
	SECOND_SEEDSCREEN_DA	VARCHAR2	50
	SECOND_SEEDSCREEN_PH	VARCHAR2	255
	SEED_CATEGORIES	VARCHAR2	255
	SEED_COMMENTS	VARCHAR2	255
	SEED_IMAGE1	VARCHAR2	50
	SEED_IMAGE2	VARCHAR2	50
	SEED_PHENOTYPES	VARCHAR2	255
	SEED_SCREEN_DATE	VARCHAR2	50
	SEEDLING_CATEGORIES	VARCHAR2	255
	SEEDLING_IMAGE1	VARCHAR2	50
	SEEDLING_IMAGE2	VARCHAR2	50
	SEEDLING_PHEN	VARCHAR2	255
	SEEDLING_REVIEWER	VARCHAR2	255
	SEEDLING_REVIEWER2	VARCHAR2	255
	SEEDLING_SCREEN_DATE	VARCHAR2	50
	SEEDLING_SCREEN_NOTES	VARCHAR2	255
	TYPEOFCROSS	VARCHAR2	50
	VEGETATIVE_ADULT_PHEN	VARCHAR2	255
	VEGETATIVE_ADULT_PHEN_	VARCHAR2	255
	VEGETATIVE_ADULT_PHEN_	VARCHAR2	255

# MaizeGDB Table Definition

Z_SEQUENCE	Column Name	Data Type	Data Length
	ENTRY_DATE	VARCHAR2	200
	GENBANK_ACC	VARCHAR2	20
	SEQ_COMMENTS	VARCHAR2	2000
	SEQ_ID	VARCHAR2	50
	SEQ_LENGTH	NUMBER	22
	SEQ_TITLE	VARCHAR2	2000
	SEQ_TYPE	VARCHAR2	20

Z_SPTR_GO	Column Name	Data Type	Data Length
	AUTO_NUM	NUMBER	22
	GO_ID	VARCHAR2	10
	SPTR_ACC	VARCHAR2	50
	SPTR_ID	VARCHAR2	50

Z_TIGR_TUC	Column Name	Data Type	Data Length
	GENBANK_ACC	VARCHAR2	15
	TIGR_TUC	VARCHAR2	15

Z_TUC_EST	Column Name	Data Type	Data Length
	DEL	VARCHAR2	1
	END_POS	NUMBER	22
	EST_GI	VARCHAR2	20
	ORIENTATION	VARCHAR2	5
	START_POS	NUMBER	22
	TUC_ID	VARCHAR2	30