# BIGSdb Isolate Database (version 1.42)

**pcr**

| | |
|---|---|
| PK | **id** |
| | **description**<br>**primer1**<br>**primer2**<br>min_length<br>max_length<br>max_primer_mismatch |
| FK1 | **curator**<br>**datestamp** |

**eav_int**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **isolate_id**<br>**field** |
| | **value** |

**eav_float**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **isolate_id**<br>**field** |
| | **value** |

**eav_text**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **isolate_id**<br>**field** |
| | **value** |

**eav_boolean**

| | |
|---|---|
| PK,FK2<br>PK,FK1 | **isolate_id**<br>**field** |
| | **value** |

**eav_date**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **isolate_id**<br>**field** |
| | **value** |

**validation_rules**

| | |
|---|---|
| PK | **id** |
| FK1 | **message**<br>**datestamp**<br>**curator** |

**validation_rule_conditions**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **rule_id**<br>**condition_id** |
| FK3 | **datestamp**<br>**curator** |

**validation_conditions**

| | |
|---|---|
| PK | **id** |
| FK1 | **field**<br>**operator**<br>**value**<br>**datestamp**<br>**curator** |

**composite_field_values**

| | |
|---|---|
| PK<br>PK | **composite_field_id**<br>**field_order** |
| FK1 | **field**<br>empty_value<br>regex<br>**curator**<br>**datestamp** |

**composite_fields**

| | |
|---|---|
| PK | **id** |
| FK1 | **position_after**<br>**main_display**<br>**curator**<br>**datestamp** |

**projects**

| | |
|---|---|
| PK | **id** |
| FK1 | **short_description**<br>full_description<br>**isolate_display**<br>**list**<br>**private**<br>**no_quota**<br>**restrict_user**<br>**restrict_usergroup**<br>curate_config<br>**curator**<br>**datestamp** |

**project_users**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **project_id**<br>**user_id** |
| | **admin**<br>**modify**<br>**curator**<br>**datestamp** |

**sequence_attributes**

| | |
|---|---|
| PK | **key** |
| FK1 | **type**<br>description<br>**curator**<br>**datestamp** |

**sequence_attribute_values**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **seqbin_id**<br>**key** |
| | **value**<br>**curator**<br>**datestamp** |

**seqbin_stats**

| | |
|---|---|
| PK,FK1 | **isolate_id** |
| | **contigs**<br>**total_length**<br>n50<br>l50<br>updated |

**loci**

| | |
|---|---|
| PK | **id** |
| FK1 | **data_type**<br>locus_type<br>**allele_id_format**<br>allele_id_regex<br>formatted_name<br>common_name<br>formatted_common_name<br>description_url<br>length<br>**length_varies**<br>**coding_sequence**<br>start_codons<br>genome_position<br>orf<br>reference_sequence<br>pcr_filter<br>probe_filter<br>match_longest<br>dbase_name<br>dbase_host<br>dbase_port<br>dbase_user<br>dbase_password<br>dbase_id<br>url<br>**main_display**<br>**isolate_display**<br>**query_field**<br>**analysis**<br>view<br>submission_template<br>**curator**<br>**date_entered**<br>**datestamp** |

**eav_fields**

| | |
|---|---|
| PK | **field** |
| FK1 | **value_format**<br>category<br>description<br>length<br>option_list<br>value_regex<br>conditional_formatting<br>html_link_text<br>html_message<br>min_value<br>max_value<br>field_order<br>**no_curate**<br>**no_submissions**<br>**datestamp**<br>**curator** |

**private_isolates**

| | |
|---|---|
| PK,FK1 | **isolate_id** |
| FK2 | **user_id**<br>**request_publish**<br>**datestamp** |

**project_members**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **project_id**<br>**isolate_id** |
| FK3 | **curator**<br>**datestamp** |

**project_user_groups**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **project_id**<br>**user_group** |
| | **modify**<br>**curator**<br>**datestamp** |

**pcr_locus**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **pcr_id**<br>**locus** |
| FK3 | **curator**<br>**datestamp** |

**probe_locus**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **probe_id**<br>**locus** |
| FK3 | **max_distance**<br>min_alignment<br>max_mismatch<br>max_gaps<br>**curator**<br>**datestamp** |

**probes**

| | |
|---|---|
| PK | **id** |
| FK1 | **description**<br>**sequence**<br>**curator**<br>**datestamp** |

**codon_tables**

| | |
|---|---|
| PK,FK1 | **isolate_id** |
| FK2 | **codon_table**<br>**curator**<br>**datestamp**<br>id |

**user_limits**

| | |
|---|---|
| PK,FK3<br>PK | **user_id**<br>**attribute** |
| FK2 | **value**<br>**curator**<br>**datestamp** |

**sequence_bin**

| | |
|---|---|
| PK | **id** |
| FK1 | **isolate_id**<br>**remote_contig**<br>**sequence**<br>method<br>run_id<br>assembly_id<br>original_designation<br>comments<br>**sender**<br>**curator**<br>**date_entered**<br>**datestamp** |

**accession**

| | |
|---|---|
| PK,FK1<br>PK<br>PK | **seqbin_id**<br>**databank**<br>**databank_id** |
| FK2 | **curator**<br>**datestamp** |

**remote_contigs**

| | |
|---|---|
| PK,FK1 | **seqbin_id** |
| | **uri**<br>length<br>checksum |

**classification_schemes**

| | |
|---|---|
| PK | **id** |
| FK2 | **scheme_id**<br>**name**<br>description<br>**inclusion_threshold**<br>**use_relative_threshold**<br>seqdef_cscheme_id<br>display_order<br>**status** |
| FK1 | **curator**<br>**datestamp** |

**isolates**

| | |
|---|---|
| PK | **id** |
| FK1<br>FK2 | **isolate**<br>country<br>year<br>age<br>sex<br>disease<br>source<br>species<br>serogroup<br>comments<br>new_version<br>**sender**<br>**curator**<br>**date_entered**<br>**datestamp** |

**isolate_aliases**

| | |
|---|---|
| PK,FK1<br>PK | **isolate_id**<br>**alias** |
| FK2 | **curator**<br>**datestamp** |

**users**

| | |
|---|---|
| PK | **id** |
| FK1 | **user_name**<br>surname<br>first_name<br>email<br>affiliation<br>**status**<br>submission_emails<br>account_request_emails<br>user_db<br>**curator**<br>**date_entered**<br>**datestamp** |

**curator_configs**

| | |
|---|---|
| PK,FK1<br>PK | **user_id**<br>**dbase_config** |
| FK2 | **curator**<br>**datestamp** |

**allele_designations**

| | |
|---|---|
| PK | **id** |
| FK4<br>FK1<br>FK2<br>FK3 | **isolate_id**<br>**locus**<br>**allele_id**<br>**sender**<br>**status**<br>**method**<br>**curator**<br>**date_entered**<br>**datestamp**<br>comments |

**allele_sequences**

| | |
|---|---|
| PK | **id** |
| FK5<br>FK1<br>FK2<br>FK4<br>FK3 | **isolate_id**<br>**seqbin_id**<br>**locus**<br>**start_pos**<br>**end_pos**<br>**isolate_id**<br>**reverse**<br>**complete**<br>**curator**<br>**datestamp** |

**sequence_flags**

| | |
|---|---|
| PK,FK1<br>PK | **id**<br>**flag** |
| FK2 | **datestamp**<br>**curator** |

**classification_group_fields**

| | |
|---|---|
| PK,FK2<br>PK | **cg_scheme_id**<br>**field** |
| FK1 | type<br>description<br>field_order<br>**curator**<br>**datestamp** |

**permissions**

| | |
|---|---|
| PK,FK1<br>PK | **user_id**<br>**permission** |
| | **curator**<br>**datestamp** |

**schemes**

| | |
|---|---|
| PK | **id** |
| FK1 | **name**<br>description<br>**allow_missing_loci**<br>**allow_presence**<br>dbase_name<br>dbase_host<br>dbase_port<br>dbase_user<br>dbase_password<br>dbase_id<br>**main_display**<br>**isolate_display**<br>**query_field**<br>**query_status**<br>**analysis**<br>view<br>display_order<br>**recommended**<br>**quality_metric**<br>**quality_metric_good**<br>**quality_metric_bad**<br>**curator**<br>**date_entered**<br>**datestamp** |

**scheme_warehouse_indices**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **scheme_id**<br>**locus** |
| | **index** |

**retired_isolates**

| | |
|---|---|
| PK | **isolate_id** |
| FK1 | **curator**<br>**datestamp** |

**history**

| | |
|---|---|
| PK,FK1<br>PK | **isolate_id**<br>**timestamp** |
| FK2 | **action**<br>**curator** |

**user_groups**

| | |
|---|---|
| PK | **id** |
| FK1 | **description**<br>**co_curate**<br>**co_curate_private**<br>**datestamp**<br>**curator** |

**user_group_members**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **user_id**<br>**user_group** |
| FK3 | **curator**<br>**datestamp** |

**analysis_results**

| | |
|---|---|
| PK<br>PK,FK1 | **name**<br>**isolate_id** |
| | **datestamp**<br>**results** |

**submissions**

| | |
|---|---|
| PK | **id** |
| FK1<br>FK2 | **type**<br>**submitter**<br>**date_submitted**<br>**datestamp**<br>**status**<br>curator<br>outcome<br>email |

**isolate_submission_field_order**

| | |
|---|---|
| PK,FK1<br>PK | **submission_id**<br>**field** |
| | **index** |

**genome_submission_stats**

| | |
|---|---|
| PK,FK1<br>PK | **submission_id**<br>**index** |
| | **contigs**<br>**total_length**<br>**n50** |

**add_genome_submissions**

| | |
|---|---|
| PK,FK1<br>PK | **submission_id**<br>**isolate_id** |
| | **isolate**<br>**filename** |

**scheme_groups**

| | |
|---|---|
| PK,FK2 | **id** |
| FK1 | **name**<br>description<br>display_order<br>**curator**<br>**datestamp** |

**scheme_members**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **scheme_id**<br>**locus** |
| FK3 | profile_name<br>field_order<br>**curator**<br>**datestamp** |

**set_loci**

| | |
|---|---|
| PK,FK1<br>PK,FK2 | **set_id**<br>**locus** |
| FK3 | set_name<br>formatted_set_name<br>set_common_name<br>formatted_set_common_name<br>**curator**<br>**datestamp** |

**sets**

| | |
|---|---|
| PK | **id** |
| FK1 | **description**<br>long_description<br>display_order<br>hidden<br>**curator**<br>**datestamp** |

**user_dbases**

| | |
|---|---|
| PK | **id** |
| | **name**<br>**dbase_name**<br>dbase_host<br>dbase_port<br>dbase_user<br>dbase_password<br>list_order<br>auto_registration<br>**curator**<br>**datestamp** |

**assembly_checks**

| | |
|---|---|
| PK<br>PK,FK1 | **name**<br>**isolate_id** |
| | **datestamp**<br>**status** |

**last_run**

| | |
|---|---|
| PK<br>PK,FK1 | **name**<br>**isolate_id** |
| | **timestamp** |

**messages**

| | |
|---|---|
| PK,FK1<br>PK | **submission_id**<br>**timestamp** |
| FK2 | **user_id**<br>**message** |

**isolate_submission_isolates**

| | |
|---|---|
| PK,FK1<br>PK<br>PK | **submission_id**<br>**index**<br>**field** |
| | **value** |

**genome_submission_analysis**

| | |
|---|---|
| PK,FK1<br>PK<br>PK | **submission_id**<br>**index**<br>**name** |
| | **timestamp**<br>**results** |

**scheme_fields**

| | |
|---|---|
| PK,FK1<br>PK | **scheme_id**<br>**field** |
| FK2 | **type**<br>**primary_key**<br>description<br>url<br>field_order<br>**main_display**<br>**isolate_display**<br>**query_field**<br>**dropdown**<br>**curator**<br>**datestamp** |

**set_schemes**

| | |
|---|---|
| PK,FK2<br>PK,FK3 | **set_id**<br>**scheme_id** |
| FK1 | set_name<br>**curator**<br>**datestamp** |

**scheme_flags**

| | |
|---|---|
| PK,FK1<br>PK | **scheme_id**<br>**flag** |
| FK2 | **curator**<br>**datestamp** |

**set_view**

| | |
|---|---|
| PK,FK1 | **set_id** |
| FK2 | **view**<br>**curator**<br>**datestamp** |

**log**

| | |
|---|---|
| PK | **id** |
| | **timestamp**<br>**user_id**<br>**user_name**<br>**table**<br>**record**<br>**action** |

**oauth_credentials**

| | |
|---|---|
| PK | **base_uri** |
| FK1 | **consumer_key**<br>**consumer_secret**<br>access_token<br>access_secret<br>session_token<br>session_secret<br>**curator**<br>**date_entered**<br>**datestamp** |

**bookmarks**

| | |
|---|---|
| PK | **id** |
| FK1 | **name**<br>**dbase_config**<br>set_id<br>**page**<br>**params**<br>**user_id**<br>**date_entered**<br>**last_accessed**<br>**public** |

**isolate_value_extended_attributes**

| | |
|---|---|
| PK,FK1<br>PK | **attribute**<br>**field_value** |
| FK2 | **isolate_field**<br>**value**<br>**datestamp**<br>**curator** |

**isolate_field_extended_attributes**

| | |
|---|---|
| PK | **attribute** |
| FK1 | **isolate_field**<br>**value_format**<br>value_regex<br>description<br>url<br>length<br>field_order<br>**curator**<br>**datestamp** |

**scheme_group_group_members**

| | |
|---|---|
| PK,FK2<br>PK,FK1 | **parent_group_id**<br>**group_id** |
| FK3 | **curator**<br>**datestamp** |

**lincode_schemes**

| | |
|---|---|
| PK,FK1 | **scheme_id** |
| | **thresholds**<br>**maindisplay**<br>**curator**<br>**datestamp** |

**lincode_fields**

| | |
|---|---|
| PK,FK1<br>PK | **scheme_id**<br>**field** |
| FK2 | type<br>display_order<br>**maindisplay**<br>**curator**<br>**datestamp** |

**scheme_group_scheme_members**

| | |
|---|---|
| PK,FK2<br>PK,FK1 | **group_id**<br>**scheme_id** |
| FK3 | **curator**<br>**datestamp** |

**scheme_refs**

| | |
|---|---|
| PK,FK1<br>PK | **scheme_id**<br>**pubmed_id** |
| FK2 | **curator**<br>**datestamp** |

**scheme_links**

| | |
|---|---|
| PK,FK1<br>PK | **scheme_id**<br>**url** |
| FK2 | **description**<br>link_order<br>**curator**<br>**datestamp** |

**refs**

| | |
|---|---|
| PK,FK1<br>PK | **isolate_id**<br>**pubmed_id** |
| FK2 | **curator**<br>**datestamp** |

Curator field foreign key relationships to users table are not shown to aid clarity.