**C\_BOX\_RETRIEVAL**

Retrieval plans, created and used by StoreMan's Retrieval Assistant. Sample retrieval/disposal tasks will include child records in l\_cryovial\_retrieval. Each retrieval may be divided up into sections/chunks to be carried out in a particular order. The plan for a box retrieval/disposal is given by  
select \* from c\_box\_retrieval b where retrieval\_cid = ? order by b.section, b.rj\_box\_cid

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Index order** | **Reference** | **Description** |
| rj\_box\_cid | i4 | 1 |  | Unique ID for this retrieval list entry |
| retrieval\_cid | i4 |  | [c\_retrieval\_job](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_retrieval_job) | The retrieval task this entry is part of |
| retrieval\_type | i2 |  |  | *obsolete - see c\_retrieval\_job* |
| box\_id | i4 |  | [box\_name](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#BOX_NAME) | Destination box: for box retrieval/disposal, the box to retrieve; for sample retrieval/disposal, the box to put retrieved cryovials into |
| project\_cid | i4 |  |  | The project the destination box belongs to (assumes cryovials in destination box are all from one project; matches c\_retrieval\_job.project\_cid when all boxes for this task are from one project) |
| section | i2 |  |  | Which chunk of the retrieval plan this entry belongs to (0 = no chunks: fill all boxes in parallel) |
| position | i2 |  |  | *obsolete* |
| box\_name | v32 |  |  | *obsolete* |
| status | i2 |  |  | 0: new record; 1: part-filled, 2: collected; 3: not found; 99: record deleted |
| time\_stamp | d/t |  |  | When this record was inserted or updated |

**L\_CRYOVIAL\_RETRIEVAL**

Sample retrieval plans, created and used by StoreMan's Retrieval Assistant. Each retrieval may be divided up into sections/chunks to be carried out in a particular order. Boxes in the same chunk are filled together. The plan for a sample retrieval/disposal is given by  
select \* from c\_box\_retrieval b, l\_cryovial\_retrieval c where b.rj\_box\_cid = c.rj\_box\_cid and retrieval\_cid = ? order by b.section, c.position

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| rj\_box\_cid | i4 | 1 | [c\_box\_retrieval](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_box_retrieval) | Details the box this sample should be placed into |
| position | i2 | 2 |  | Where the sample appears in [the relevant chunk of] the retrieval plan |
| cryovial\_barcode | v64 |  |  | The barcode on the sample |
| aliquot\_type\_cid | i4 |  | [c\_object\_name](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_object_name) | The aliquot type (cryovial\_barcode + aliquot\_type\_cid should uniquely identify the cryovial) |
| slot\_number | i2 |  |  | The expected position of the cryovial in the destination box (if two records suggest the same position in the same box, the first should be the primary aliquot; the second will be ignored if the first is found) |
| process\_cid | i4 |  | [c\_audit\_trail](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_audit_trail) | Who stored it, which program etc. |
| status | i2 |  |  | 0: expected; 1: ignored, 2: collected; 3: not found; 99: record deleted |
| time\_stamp | d/t |  |  | When this record was created/updated |

**CRYOVIAL**

A record of (expected) aliquots from a sample. Cryovials collected from the same source may have the same barcode but this should not be relied on: check the source name in the specimen record they come from. Cryovials collected from the same source will have different aliquot types, e.g. EDTA\_1, EDTA\_2, Urine\_1 etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Key** | **Refers to** | **Description / Comments** |
| cryovial\_id | i4 | 1 |  | The internal ID for this aliquot from this sample |
| sample\_id | i4 |  | [specimen](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#SPECIMEN) | The ID of the sample the aliquot was taken from. If aliquots are taken at the clinic, the specimen entry will match this record |
| cryovial\_barcode | v16 | 1 |  | The barcode on the (set of) cryovials storing this sample |
| aliquot\_type\_cid | i4 |  | [c\_object\_name](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_object_name) | The type of aliquot in this cryovial |
| note\_exists | i2 |  |  | 0: no note for this aliquot, >=1: entry/ies for this aliquot in NOTE |
| process\_cid | i4 |  | [c\_audit\_trail](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#C_AUDIT_TRAIL) | The program run that created or updated this record |
| time\_stamp | d/t |  |  | When this entry was created/modified |
| status | i2 |  |  | 0 = new entry, 1 = stored/confirmed, 2 = contents transferred to other cryovials, 3 = disposed of, 99 = record invalid/deleted |

**CRYOVIAL\_STORE**

Where to find a cryovial. Each entry in CRYOVIAL with a status of 1 should have a record in this table showing its current location with no date in removed. Other records give the cryovial's history.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Key** | **Refers to** | **Description / Comments** |
| record\_id | i4 | 1 |  | A (project-related) ID for this entry |
| cryovial\_id | i4 |  | [cryovial](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#CRYOVIAL) | The cryovial to be stored |
| box\_cid | i4 |  | [box\_name](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#BOX_NAME) | The ID of the container this cryovial should be put in |
| cryovial\_position | i2 |  |  | *obsolete - use tube\_position* |
| tube\_position | i2 |  |  | Where the cryovial (or vacutainer) is (or was) in the box (or sample rack) |
| time\_stamp | d/t |  |  | When this tube was put into that container |
| sample\_volume | f8 |  |  | The volume of liquid stored, in millilitres (if recorded, otherwise < 0) |
| removed | d/t |  |  | When this tube was taken out of this box (initially empty) |
| status | i2 |  |  | 0 = space allocated, 1 = position confirmed, 2 = removal expected, 3 = removed for disposal (note gives reason), 4 = removed for analysis, 5 = moved to another box, 99 = record invalid/deleted |
| note\_exists | i2 |  |  | 0 = no note; >=1: one or more note in the NOTE table |
| process\_cid | i4 |  | [c\_audit\_trail](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#C_AUDIT_TRAIL) | The program run that made this entry |
| retrieval\_cid | i4 |  | [c\_retrieval\_job](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_retrieval_job) | The task that caused this cryovial to be moved (initially 0) |

**BOX\_NAME**

A record of each box, rack or bag of cryovials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Key** | **Refers to** | **Description / Comments** |
| box\_cid | i4 | 1 |  | A project-specific ID for this record |
| barcode | v24 |  |  | The ID to be printed on the container (usually <project code> <box\_cid>) |
| box\_type\_cid | i4 |  | [box\_content](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#BOX_CONTENT) | The formation of aliquot types stored in this container |
| box\_capacity | i2 |  |  | The number of cryovials that can still be added (0 = full box; -1 = not known) |
| external\_name | v32 |  |  | A unique label for this box. Usually <project name> <box type> <box\_cid> |
| status | i2 |  |  | 0 = new/empty, 1 = cryovials added, 2 = content confirmed, 3 = ready to store, 4 = stored, 8 = destroyed, 99 = invalid record |
| slot\_cid | i4 |  |  | *obsolete - use box\_store* |
| time\_stamp | d/t |  |  | When this record was last updated |
| note\_exists | i2 |  |  | 0: no notes; >=1: one or more corresponding records in the NOTE table |
| process\_cid | i4 |  | [c\_audit\_trail](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#C_AUDIT_TRAIL) | The program run that created or updated this record |

**BOX\_STORE**

A record of where a box or sample rack has been (or will be) stored. Each entry in BOX\_NAME with a status of 4 should have a record in this table with no date in removed, showing its current location. Other records give the box's past or expected position.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Key** | **Refers to** | **Description / Comments** |
| record\_id | i4 | 1 |  | A project-unique ID for this record |
| box\_cid | i4 |  | [box\_name](file:///K:\webcore\LIMS\database\v2.7\ProjectDb.htm#box_name) | The box that is being stored |
| rack\_cid | i4 |  | [c\_rack\_number](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#C_RACK_NUMBER) | The structure this box has been stored in |
| slot\_position | i2 |  |  | The position of this box/rack in that structure |
| status | i2 |  |  | 0: slot reserved (by StoreMan), 1: unconfirmed (imported data), 2: removal expected, 3: removed, 5: slot allocated (by Box Reception), 6: slot confirmed, 7: referred by operator, 99: deleted |
| time\_stamp | d/t |  |  | When this record was created or confirmed |
| removed | d/t |  |  | When the box was removed from this position (empty if still in position) |
| retrieval\_cid | i4 |  | [c\_retrieval\_job](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#c_retrieval_job) | The task that caused this box to be moved or removed (0 if still in position) |
| process\_cid | i4 |  | [c\_audit\_trail](file:///K:\webcore\LIMS\database\v2.7\CentralDb.htm#C_AUDIT_TRAIL) | The program run that created or updated this record |