### 1. List all casefiles with testtype CS2 and having non-empty thirdpartyid

### Casefile

| id     | opened   | parentkit_id | testtype | clinic_id | thirdpartyid |
|--------|----------|--------------|----------|-----------|--------------|
| 234527 | 10/01/17 | 1            | NPT      | 3         | null         |
| 345234 | 10/02/17 | 2            | CS2      | 2         | null         |
| 456234 | 10/03/17 | 3            | CS3      | 1         | 123 -        |
| 678967 | 10/04/17 | 4            | CS2      | 2         | 345          |



2. List barcode and state of samples in ARCHIVE and DISPOSED state

Sample

| id   | barcode  | state    |  |
|------|----------|----------|--|
| 1101 | 12345-BM | COMPLETE |  |
| 1102 | 12346-BM | DISPOSED |  |
| 1103 | 12347-BM | ARCHIVE  |  |
| 1104 | 12348-BM | ARCHIVE  |  |



3. Count all casefiles for each clinic and display it sorted by the number of casefile so that the highest number of casefiles appears first

Clinic PY

| name    |
|---------|
| Natera. |
| PAMF    |
| Kaiser  |
|         |



Casefile

| id     | opened   | parentkit_id | testtype | clinic_id | thirdpartyid |
|--------|----------|--------------|----------|-----------|--------------|
| 234527 | 10/01/17 | 1            | NPT      | 3         | null         |
| 345234 | 10/02/17 | 2 ( )        | CS2      | 2         | null         |
| 456234 | 10/03/17 | 3            | CS3      | 1         | 123          |
|        |          |              |          |           | 0.45         |

### 1. List parentkit barcodes for all samples in ARCHIVE state

### Sample

| id   | barcode  | state    |  |
|------|----------|----------|--|
| 1101 | 12345-BM | COMPLETE |  |
| 1102 | 12346-BM | DISPOSED |  |
| 1103 | 12347-BM | ARCHIVE  |  |
| 1104 | 12348-BM | ARCHIVE  |  |



#### Parentkit

| id       | barcode   | roccined |                   | 1           |           |
|----------|-----------|----------|-------------------|-------------|-----------|
| 2        |           | received | casefile_id       | state       | sample_id |
| 2        | 98765-C   | 10/02/17 | 345234            | IN_SHIPPING |           |
| 3        | 98768-N   | 10/03/17 |                   |             | 1102      |
| 4        | 00775 0   |          | 456234            | IN_PROGRESS | 1103      |
| 7        | 98775-P . | 10/04/17 | 678967            | IN_SHIPPING | - 1104    |
| 1        | 98788-N   | 10/01/17 | The second second |             | m, 1104   |
| ALL Y TH |           | 10/01/17 | 234527            | IN_PROGRESS | 1101      |

## 2. List 10 casefiles with testtype that contains 'CS' in it

### Casefile

| id     | opened   | parentkit_id | testtype |           |              |
|--------|----------|--------------|----------|-----------|--------------|
| 234527 | 10/01/17 | 1            |          | clinic_id | thirdpartyio |
| 345234 |          |              | NPT      | 3         | null         |
|        | 10/02/17 | 2            | CS2      | 2         | null .       |
| 456234 | 10/03/17 | 3            | CS3      |           | null         |
| 678967 | 10/04/17 |              |          |           | 123          |
|        | 10/04/17 | 4            | CS2      | 2         | 345          |



# 3. Write a query to list parentkit barcode and state (from parentkit table) for each casefile id (casefile table)

### Casefile

| id ,   | opened   | parentkit id | testtype | clinic_id |              |
|--------|----------|--------------|----------|-----------|--------------|
| 234527 | 10/01/17 | 1            | NPT      | Cirric_id | thirdpartyio |
| 345234 | 10/02/17 | 2            |          | 3         | null         |
| 456234 | 10/03/17 | 2            | CS2      | 2         | null         |
| 678967 |          | 3            | CS3      | 1         | 123          |
| 0,000, | 10/04/17 | 4            | CS2      | 2         | 345          |

### The Parentkit

| id | barcode | received. |             |             |           |
|----|---------|-----------|-------------|-------------|-----------|
| 2  |         | received  | casefile_id | state       | sample_id |
| 2  | 98765-C | 10/02/17  | 345234      | IN_SHIPPING |           |
| 3  | 98768-N | 10/03/17  |             |             | 1102      |
| 1  |         | 10/03/17  | 456234      | IN_PROGRESS | 1103      |
| 7  | 98775-P | 10/04/17  | 678967      | IN_SHIPPING |           |
| 1  | 98788-N | 10/01/17  |             |             | 1104      |
|    | 1       | 10/01/17  | 234527      | IN_PROGRESS | 1101      |

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