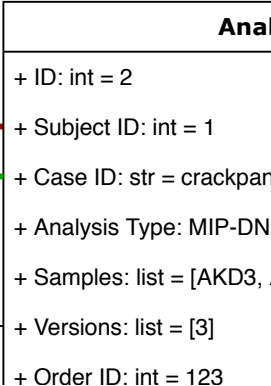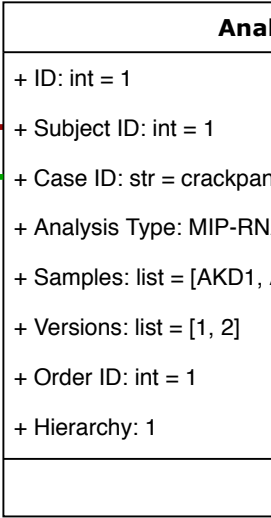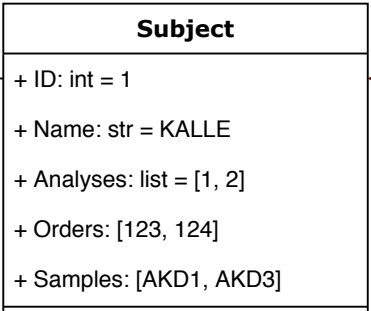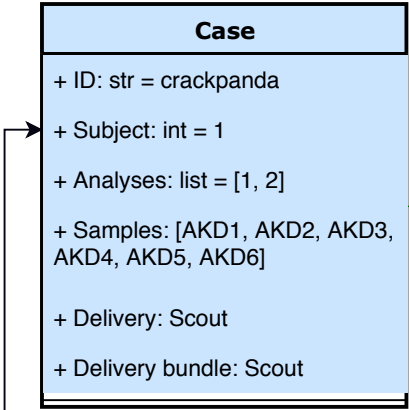# Human

Sam...

Has unic

Subject I
samples
reporting

Flexible
(Capture

Case

A collection of analyses

Delivered according to UDFs

Can be built from analyses from
multiple orders

Case

+ ID: str = crackpanda

+ Subject: int = 1

+ Analyses: list = [1, 2]

+ Samples: [AKD1, AKD2, AKD3,
AKD4, AKD5, AKD6]

+ Delivery: Scout

+ Delivery bundle: Scout

Anal

+ ID: int = 1

+ Subject ID: int = 1

+ Case ID: str = crackpan

+ Analysis Type: MIP-RN

+ Samples: list = [AKD1, .

+ Versions: list = [1, 2]

+ Order ID: int = 1

+ Hierarchy: 1

Anal

+ ID: int = 2

+ Subject ID: int = 1

+ Case ID: str = crackpan

+ Analysis Type: MIP-DN

+ Samples: list = [AKD3, .

+ Versions: list = [3]

+ Order ID: int = 123

Subject

+ ID: int = 1

+ Name: str = KALLE

+ Analyses: list = [1, 2]

+ Orders: [123, 124]

+ Samples: [AKD1, AKD3]

...ple

...que LIMS ID

...D to link multiple
... to same individual for
...g

...fields can be added
... kit, organism, etc)

Sample

Sample

Sample

+ ID: AKD5

+ Display Name: P53FT3

+ Subject ID: 3

+ Type: RNA

+ Tissue: Blood

...lysis

...nda

...A

...AKD2, AKD5]

Order

Contains collection of samples

Contains definitions for desired
analyses to be performed on
samples

Order

+ ID: 123

+ Analysis: list = [1,2,3,4]

+ Samples: list = [ACC1,
ACC23, ACC45, AKD1, AKD2,
AKD3, AKD4, AKD5, AKD6]

+ Customer: Cust007

...ysis

...nda

...A

...AKD4, AKD6]

Hierarchy

Analysis

+ ID: int = 3

+ Subject ID: int = 2

+ Case ID: str = hungryhippo

+ Analysis Type: BALSAMIC

+ Samples: list = [ACC1, ACC23]

+ Versions: list = [4]

+ Order ID: int = 1

+ Hierarchy: 3

Hierarchy

+ ID: 3

+ Type: BALSAMIC TvN

+ Meta: {
N: Sample ID,
T: Sample ID
  }

Case

+ ID: str = hungryhippo

+ Subject: int = 2

+ Analyses: list = [3, 4]

+ Samples: [ACC1, ACC23,
ACC45]

+ Delivery: Inbox

+ Delivery bundle: BAM

Analysis

+ ID: int = 4

+ Subject ID: int = 2

+ Case ID: str = hungryhippo

+ Analysis Type: BALSAMIC

+ Samples: list = [ACC1, ACC45]

Analysis

Connected to case via Subject ID

Only one analysis type

+ Hierarchy: 2

Version

+ Analysis ID: int = 2

+ Delivered at: dt

+ Action: str = "running"
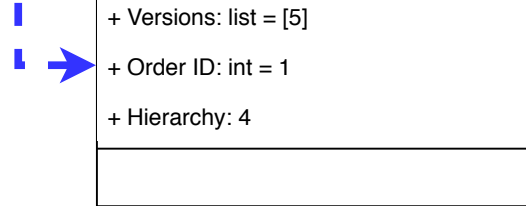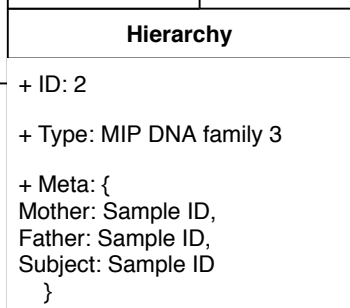
+ Started: dt

+ Completed: dt

+ Workflow = "MIP 8.0"

Version

Same as current Analysis

To be stored as version in HK

Analysis ID is unique

Several versions of one analy
can exist in case

Hierarchy

+ ID: 2

+ Type: MIP DNA family 3

+ Meta: {
Mother: Sample ID,
Father: Sample ID,
Subject: Sample ID
    }

+ Versions: list = [5]

+ Order ID: int = 1

+ Hierarchy: 4

Can have multiple versions

Newest version of analysis
included in case

Hierarchy

Flexible

Define how samples to be
organized for analysis

ysis