Normalization

MAU Artwork Status History Reports

UNF

STATUS (artwork_no, artwork_title, artist_code, artist_name, date_added, (status_date, status_artwork, gallery_id, gallery_name))

1NF

ARTWORK (<u>artist_code,</u> <u>artwork_no,</u> artwork_title, artist_given_name, artist_family_name, date_added)

STATUS (<u>artist_code,</u> <u>artwork_no,</u> <u>status_date,</u> status_artwork, gallery_id, gallery_name)

Partial dependencies: artist_code -> artist_given_name, artist_family_name

2NF

ARTWORK (<u>artist_code,</u> <u>artwork_no,</u> artwork_title, artist_given_name, artist_family_name, date_added)

ARTIST (<u>artist_code,</u> artist_given_name, artist_family_name)

STATUS (<u>artist_code,</u> <u>artwork_no,</u> <u>status_date,</u> status_artwork, gallery_id, gallery_name)

Transitive dependencies: gallery_id -> gallery_name

3NF

ARTWORK (<u>artist_code,</u> <u>artwork_no,</u> artwork_title, date_added)

ARTIST (<u>artist_code,</u> artist_given_name, artist_family_name)

STATUS (<u>artist_code,</u> <u>artwork_no,</u> <u>status_date,</u> status_artwork, gallery_id)

GALLERY (<u>gallery_id,</u> gallery_name)

<u>Full dependencies</u>
artist_code, artwork_no -> artwork_title, date_added

artist_code -> artist_given_name, artist_family_name

artist_code, artwork_no, status_date -> status_artwork, gallery_id

gallery_id -> gallery_name

MAU Gallery Display Report

UNF

GALLERY (gallery_id, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close (artist_code, artwork_no, artwork_title, artist_name, date_start, date_end, featured_catalog))

1NF

GALLERY (<u>gallery_id</u>, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBIT (<u>artist_code</u>, <u>artwork_no</u>, artwork_title, artist_given_name, artist_family_name, <u>date_start</u>, <u>date_end</u>, featured_catalog)

Partial Dependencies: artist_code -> artist_given_name, artist_family_name
        artwork_no, artist_code -> artwork_title

2NF

GALLERY (<u>gallery_id</u>, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBIT (<u>artist_code</u>, <u>artwork_no</u>, <u>date_start</u>, <u>date_end</u>, featured_catalog)

ARTWORK (<u>artwork_no</u>, <u>artist_code</u>, artwork_title)

ARTIST (<u>artist_code</u>, artist_given_name, artist_family_name)

Transitive Dependencies: None present

3NF

GALLERY (<u>gallery_id</u>, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBIT (<u>artist_code</u>, <u>artwork_no</u>, <u>date_start</u>, date_end, featured_catalog)

ARTWORK (<u>artwork_no</u>, <u>artist_code</u>, artwork_title)

ARTIST (<u>artist_code</u>, artist_given_name, artist_family_name)

<u>Full dependencies</u>

gallery_id -> gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close

artist_code, artwork_no, date_start -> date_end, featured_catalog

artist_code, artwork_no -> artwork_title

artist_code-> artist_given_name, artist_family_name

Collected 3NF relations

GALLERY (<u>gallery_id</u>, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBIT (<u>artist_code</u>, <u>artwork_no</u>, <u>date_start</u>, date_end, featured_catalog)

ARTWORK (<u>artwork_no</u>, <u>artist_code</u>, artwork_title)

ARTIST (<u>artist_code</u>, artist_given_name, artist_family_name)

ARTWORK (<u>artist_code,</u> <u>artwork_no</u>, artwork_title, date_added)

ARTIST (<u>artist_code</u>, artist_given_name, artist_family_name)

STATUS (<u>artist_code,</u> <u>artwork_no</u>, <u>status_date</u>, status_artwork, gallery_id)

GALLERY (<u>gallery_id</u>, gallery_name)

Attribute Synthesis

GALLERY (<u>gallery_id</u>, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBIT (<u>artist_code</u>, <u>artwork_no</u>, <u>date_start</u>, date_end, featured_catalog)

ARTIST (<u>artist_code</u>, artist_given_name, artist_family_name)

ARTWORK (<u>artist_code,</u> <u>artwork_no</u>, artwork_title, date_added)

STATUS (<u>artist_code,</u> <u>artwork_no</u>, <u>status_date</u>, status_artwork, gallery_id)