

MAU ArtWork Status History Report

UNF

ARTWORK(artwork_no, artwork_title, artist_code, artist_name, date_accepted, (statu_date, statu_type, gallery_id, gallery_name))

There is no dependency.

1NF

ARTWORK(artwork_no, artwork_title, artist_code, artist_name, date_accepted)

STATU(artwork_no, artist_code, statu_date, statu_type, gallery_id, gallery_name)

Partial dependencies:

artist_code \rightarrow artist_name

2NF

ARTWORK(artwork_no, artwork_title, artist_code, date_accepted)

STATU(artwork_no, artist_code, statu_date, statu_type, gallery_id, gallery_name)

ARTIST(artist_code, artist_name)

Transitive dependencies:

gallery_id \rightarrow gallery_name

3NF

ARTWORK(artwork_no, artwork_title, artist_code, date_accepted)

STATU(artwork_no, artist_code, statu_date, statu_type, gallery_id)

ARTIST(artist_code, artist_name)

GALLERY(gallery_id, gallery_name)

Full dependencies:

artwork_no, artist_code → artwork_title, date_accepted

artwork_no, artist_code, statu_date → statu_type, gallery_id

artist_code → artist_name

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, exb_start_date,
exb_end_date, feature_in_catalog))

There is no dependency.

1NF

GALLERY(gallery_id, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open,
gallery_close)

EXHIBITION(gallery_id, artist_code, artwork_no, artwork_title, artist_name, exb_start_date,
exb_end_date, feature_in_catalog)

Partial dependencies:

artist_code \rightarrow artist_name

artist_code, artwork_no \rightarrow artwork_title

2NF

GALLERY(gallery_id, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBITION(gallery_id, artist_code, artwork_no, exb_start_date, exb_end_date, feature_in_catalog)

ARTIST(artist_code, artist_name)

ARTWORK(artist_code, artwork_no, artwork_title)

No transitive dependency.

3NF

GALLERY(gallery_id, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open, gallery_close)

EXHIBITION(gallery_id, artist_code, artwork_no, exb_start_date, exb_end_date, feature_in_catalog)

ARTIST(artist_code, artist_name)

ARTWORK(artist_code, artwork_no, artwork_title)

Full dependencies:

gallery_id → gallery_name, gallery_street, gallery_town, gallery_state, gallery_open,
gallery_close

gallery_id, artist_code, artwork_no, exb_start_date → exb_end_date, feature_in_catalog

artist_code → artist_name

artist_code, artwork_no → artwork_title

COLLECTED 3NF RELATIONS:

1. ARTWORK(artwork_no, artwork_title, artist_code, date_accepted)

2. STATU(artwork_no, artist_code, statu_date, statu_type, gallery_id)

3. ARTIST(artist_code, artist_name)

4. GALLERY(gallery_id, gallery_name)

5. GALLERY(gallery_id, gallery_name, gallery_street, gallery_town, gallery_state,
gallery_open, gallery_close)

6. EXHIBITION(gallery_id, artist_code, artwork_no, exb_start_date, exb_end_date,
feature_in_catalog)

7. ARTIST(artist_code, artist_name)

8. ARTWORK(artist_code, artwork_no, artwork_title)

ATTRIBUTE SYNTHESIS

1 & 8:

ARTWORK(artwork_no, artist_code, artwork_title, date_accepted)

2:

STATU(artwork_no, artist_code, statu_date, statu_type, gallery_id)

3 & 7:

ARTIST(artist_code, artist_name)

4 & 5:

GALLERY(gallery_id, gallery_name, gallery_street, gallery_town, gallery_state, gallery_open,
gallery_close)

6:

EXHIBITION(gallery_id, artist_code, artwork_no, exb_start_date, exb_end_date,
feature_in_catalog)

