- ***MAU ArtWork Status History Reports.***

UNF:
ARTWORK(art_no, art_title, artist_code, artist_name, art_add_date(status_date, status, gal_id, gal_name))

1NF:
ARTWORK(<u>art_no</u>, art_title, <u>artist_code</u>, artist_name, art_add_date)
STATUS(<u>status_date</u>, <u>art_no</u> ,<u>artist_code</u>, status, gal_id, gal_name)

Partial Dependencies:
artist_code → arist_name

2NF:
ARTWORK(<u>art_no</u>, <u>artist_code</u>, art_title, art_add_date)
STATUS(<u>status_date</u>, <u>art_no</u> ,<u>artist_code</u>, status, gal_id, gal_name)
ARTIST(<u>artist_code</u>, arist_name)

Transitive Dependencies:
gal_id → gal_name

3NF:
ARTWORK(<u>art_no</u>, <u>artist_code</u>, art_title, art_add_date)
STATUS(<u>status_date</u>, <u>art_no</u> ,<u>artist_code</u>, status, gal_id)
ARTIST(<u>artist_code</u>, arist_name)
GALLERY(<u>gal_id</u>, gal_name)

Full Dependencies:
art_no, artist_code → art_title, art_add_date
status_date, art_no ,artist_code→ status, gal_id
artist_code→ arist_name
gal_id→ gal_name

- MAU GalleryDisplay Report

UNF:
GALLERY(gal_id, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close(artist_code, art_no, art_title, artist_name, exh_start, exh_end, exh_fea))

1NF:
GALLERY(<u>gal_id</u>, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close)
EXHIBITION(<u>artist_code</u>, <u>art_no</u>, <u>exh_start,</u> art_title, artist_name, exh_end, exh_fea, gal_id)

Partial Dependencies:
artist_code, art_no→ art_title
artist_code→ artist_name

2NF:
GALLERY(<u>gal_id</u>, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close)
EXHIBITION(<u>artist_code</u>, <u>art_no</u>, <u>exh_start,</u> exh_end, exh_fea, gal_id)
ARTWORK(<u>artist_code</u>, <u>art_no</u>, art_title)
ARTIST(<u>artist_code</u>, artist_name)

Transitive Dependencies:
No Transitive Dependencies.

3NF:
GALLERY(<u>gal_id</u>, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close)
EXHIBITION(<u>artist_code</u>, <u>art_no</u>, <u>exh_start,</u> exh_end, exh_fea, gal_id)
ARTWORK(<u>artist_code</u>, <u>art_no</u>, art_title)
ARTIST(<u>artist_code</u>, artist_name)

Full Dependencies:
gal_id→ gal_name, gal_str, gal_town, gal_state, gal_open, gal_close
artist_code, art_no, exh_start→ exh_end, exh_fea, gal_id
artist_code, art_no→ art_title
artist_code→ artist_name

Assignment 1B Normalisation
Shenyi Zhang 30359953

- Collected 3NF Relations:

1.ARTWORK(<u>art_no</u>, <u>artist_code</u>, art_title, art_add_date)

2.STATUS(<u>status_date</u>, <u>art_no</u> ,<u>artist_code</u>, status, gal_id)

3.ARTIST(<u>artist_code</u>, arist_name)

4.GALLERY(<u>gal_id</u>, gal_name)

5.GALLERY(<u>gal_id</u>, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close)

6.EXHIBITION(<u>artist_code</u>, <u>art_no</u>, <u>exh_start,</u> exh_end, exh_fea, gal_id)

7.ARTWORK(<u>artist_code</u>, <u>art_no</u>, art_title)

8.ARTIST(<u>artist_code</u>, artist_name)

- ATTRIBUTE SYNTHESIS:

1&7:

ARTWORK(<u>art_no</u>, <u>artist_code</u>, art_title, art_add_date)

2:

STATUS(<u>status_date</u>, <u>art_no</u> ,<u>artist_code</u>, status, gal_id)

3&8:

ARTIST(<u>artist_code</u>, arist_name)

4&5:

GALLERY(<u>gal_id</u>, gal_name, gal_str, gal_town, gal_state, gal_open, gal_close)

6:

EXHIBITION(<u>artist_code</u>, <u>art_no</u>, <u>exh_start,</u> exh_end, exh_fea, gal_id)