





Group 5-L : Event Management Database System
Ids : 201401420, 201401221, 201401222, 201401409.

We changed our ER diagram little bit, because we wanted to add more entities. So now the FDs are according to the new ER diagram. In which no FD violates the BCNF decomposition. As said this FDs are according to BCNF only, we did not have to decompose any relation.

Event :

Primary Key : Event_id

| | | |
|----------|---|-------------|
| Event_id | → | description |
| Event_id | → | name |
| Event_id | → | event_url |
| Event_id | → | email |
| Event_id | → | start_time |
| Event_id | → | end_time |
| Event_id | → | place |
| Event_id | → | city |

Session Location :

Primary Key : event_id, session_id, bulidinng_name, room_no,floor_no.
No FDs.

Sessions :

Primary Key : event_id, session_id.

| | | |
|----------------------|---|----------------|
| event_id, session_id | → | title |
| event_id, session_id | → | subtitle |
| event_id, session_id | → | start_time |
| event_id, session_id | → | end_time |
| event_id, session_id | → | short_abstract |
| event_id, session_id | → | long_abstract |
| event_id, session_id | → | language |

Location :

Primary Key : place, city.
No FDs.

City :

Primary Key : City
City → State.

State :

Primary Key : State
State → Country.

User :

Primary Key : User_id

| | | |
|---------|---|--------------|
| User_id | → | email |
| User_id | → | fname |
| User_id | → | lname |
| User_id | → | description |
| User_id | → | facebook_url |
| User_id | → | linkedin_url |

User Coupons:

Primary Key : user_id, even_id, code.
No FDs.

Complaints :

Primary Key : Complaint_id.

| | | |
|--------------|---|---------------|
| Complaint_id | → | user_id |
| Complaint_id | → | description |
| Complaint_id | → | priority |
| Complaint_id | → | register-date |
| Complaint_id | → | is_resolved |

Notifications:

Primary Key : User_id, received_at

| | | |
|----------------------|---|----------|
| User_id, received_at | → | title |
| User_id, received_at | → | message |
| User_id, received_at | → | action |
| User_id, received_at | → | has_read |

Event Requirements :

Primary Key : Event_id, equipemet_name.

| | | |
|--------------------------|---|--------------|
| Event_id, equipemet_name | → | quantity |
| Event_id, equipemet_name | → | is_available |

Call for Papers :

Primary Key : Announcement_date, event_id

| | | |
|-----------------------------|---|--------------|
| Announcement_date, event_id | → | announcement |
| Announcement_date, event_id | → | start_date |
| Announcement_date, event_id | → | end_date |

Tickets :

Primary Key : Event_id,type.

| | | |
|----------------|---|-----------------------------|
| Event_id, type | → | number_of_availbale_tickets |
| Event_id, type | → | description |
| Event_id, type | → | price |

Orders :

Primary Key : Transaction_id.

| | | |
|----------------|---|-----------------|
| Transaction_id | → | user_id |
| Transaction_id | → | event_id |
| Transaction_id | → | type |
| Transaction_id | → | payment_method |
| Transaction_id | → | quantity |
| Transaction_id | → | payment_details |
| Transaction_id | → | date |

Discounts :

Primary Key : Event_id, type.

| | | |
|----------------|---|------------|
| Event_id, type | → | value |
| Event_id, type | → | type |
| Event_id, type | → | is_active |
| Event_id, type | → | valid_from |
| Event_id, type | → | valid_till |

User Roles :

Primary Key : user_id, event_id, role_no

No FDs.

Role :

Primary Key : Role_no.

| | | |
|---------|---|-----------|
| Role_no | → | role_name |
|---------|---|-----------|

Speakers :

Primary Key : User_id, event_id, session_id

| | | |
|------------------------------|---|--------------|
| User_id, event_id,session_id | → | description |
| User_id, event_id,session_id | → | organization |
| User_id, event_id,session_id | → | country |
| User_id, event_id,session_id | → | is_arrived |
| User_id, event_id,session_id | → | address |

Sponsors :

Primary Key : User_id, event_id.

User_id, event_id → money

User_id, event_id → type

User_id, event_id → description

User_id, event_id → organization

Tax :

Primary Key : Type, state.

Type, state → rate

Event Subjects :

Primary Key : event_id, subtopic.

No FDs.

Subjects :

Primary Key : Subtopic .

Subtopic → topic