

---Kevin Ochoa

```
DROP TABLE al_venue
DROP TABLE al_types
DROP TABLE al_events
```

```
create table al_venues(
    venue_id varchar(255) not null,
    venue_name varchar(255) not null,
    venue_capacity int not null,
    venue_description varchar(255) null,
    venue_cost decimal(10, 2) DEFAULT 0,
)
```

```
create table al_events(
    event_id int not null,
    event_name varchar(500) not null,
    event_date datetime not null default current_timestamp,
    event_price decimal(10, 2) not null default 100,
    event_attendees int not null,
    fk_venue_id varchar(255),
    fk_event_type varchar(255) not null,
)
```

```
create table al_types(
    event_type varchar(255) not null,
)
```

```
alter table al_venues
add constraint pk_venue_id primary key (venue_id);
```

```
alter table al_events
add constraint pk_event_id primary key (event_id);
```

```
alter table al_types
add constraint pk_event_type primary key (event_type);
```

```
alter table al_events
add constraint fk_al_events_venue_id
foreign key (fk_venue_id) references al_venues(venue_id);
```

```
alter table al_events
add constraint fk_al_events_event_type
foreign key (fk_event_type) references al_types(event_type);
```

```
INSERT INTO al_venues(venue_id, venue_name, venue_capacity, venue_description, venue_cost)
VALUES ('GCC', 'Grand Convention Center', 1000, 'Elegant ballroom with modern amenities', $7500.00),
       ('RP', 'Riverside Pavilion', 300, 'Scenic venue overlooking the river', $2500.00),
       ('THA', 'Tech Hub Auditorium', 750, 'State-of-the-art technology for conferences', $3000.000),
       ('GR', 'Garden Retreat', 150, 'Beautiful outdoor garden for intimate events', $5250.00);
```

```
SELECT * FROM al_venues
ORDER BY venue_id
```

```
INSERT INTO al_types(event_type)
VALUES ('Conference'), ('Concert'), ('Wedding'), ('Workshop'), ('Celebration')
```

```
INSERT INTO al_events(event_id,event_name, event_date, event_price, event_attendees, fk_venue_id, fk_event_type)
VALUES (1, 'Annual Gala', '2024/05/15 18:30:00', 200.00, 820, 'GCC', 'Conference'),
       (2, 'Tech summit', '2024-06-20 14:00:00', 150.00, 750, 'THA', 'Conference'),
       (3, 'Wedding Bliss', '2024-07-10 17:45:00', 300.00,75, 'GR', 'Wedding'),
       (4, 'Summer Concert Series', '2024-08-05 20:00:00', 120.00, 300, 'RP', 'Concert'),
       (5, 'Corporate Retreat', '2024-09-15 9:00:00', 250.00, 250, 'GCC', 'Conference'),
       (6, 'Product Launch', '2024-10-22 12:30:00', 180.00, 500, 'THA', 'Workshop'),
       (7, 'Cultural Festival', '2024-11-12 19:15:00', 100.00, 175, 'RP', 'Celebration'),
       (8, 'Tech Workshop', '2024-12-03 15:45:00', 120.00, 425, 'THA', 'Workshop'),
       (9, 'Holiday Party', '2024-12-20 21:00:00', 150.00, 50, 'GR', 'Celebration'),
       (10, 'New Years Eve Bash', '2024-12-31 22:30:00', 300.00, 1000, 'GCC', 'Celebration')
```

---6.1

```
select fk_venue_id,
       AVG(event_price) AS average_ticket_price,
       MAX(event_price) AS most_expensive_ticket
from al_events
group by fk_venue_id
```

---6.2

```
select * , * , *
from al_events
      join al_venues on fk_venue_id = venue_id
      join al_types on fk_event_type = event_type
where MONTH(event_date) =12;
```

---6.3

```
select event_type, venue_name, venue_cost,
SUM(event_attendees * event_price) AS revenue_generated,
SUM(event_attendees*event_price)- (COUNT(event_id) * venue_cost) AS profit_earned,
COUNT(event_id) AS number_of_events
from al_events
      join al_venues on fk_venue_id = venue_id
      join al_types on fk_event_type = event_type
GROUP BY event_type, venue_name, venue_cost
ORDER BY venue_name
```