Wssignment-01 T. Annkumar

Event management system with Real-Time Analysis
Design a database for manging events attendee,
tickets, and Venue logitics Requirements
create table for events, Venue tickets, with
relationship defined between each
write sou queries to provide real time analytics
on ticket sales attendance and revenue

and trigers to automatically update event capacity
and motify event organizers when a threeshold of
tickets is reached

1 Conceptual ER diagram:

The conceptual ER diagram provides a high level overview of the main enities, and their

fixing philips

relationships in the system.

1		14 1, 10, 6
Event	Venue.	-Altendee.
Eventad Name Date	Venue ID Name Location	Attendee ID Name contact INFO
Ticket Vicket Events Price	ID Event IP Affendee Sales Dat	ap 1

Conceptual Model Explanation: It Event: Represents each event venue: Represents the Vental Attendee: Represents individed to Ticket: Represents the tevent venut. It Ticketsale: Represents ticket each attendee	hue wohere the le attending e gpe and prices	vents. J-tickets for
Logical ER diagram: The logical ER diagram including primary key foreign That Specify entity relation	adds som mor gnkey and at nships.	e detail. Hribules
Name Date venue Sp(Fk) Ticket Ip Cpk) Event Ip (Fk) Price	renue (p) (pk) plame ocation capacity. Ticketsales Ticketsales Ticketsals (pk) Event (pk) Event (pk) Attendee (fk) Quantity salebate Armount	Attendee (Pk) Name contact Info Email.

Logical Model Explanation! + primary keys (pk): unique Identifiers for each table. - I foreign keys (FK): linking table Eg: Event &p in Tickel referencing event IP - Additional Attributes !-Event includes a venue Ip as a foreignkey venue includes capacity attribute for sealing limits. Tickel sales includes Quantity and Amount for each al. Physical ER diagram The physical ER diagonam futher specifies data types, constraits, and table structures for implementation in a database, managment system. Event. Venue All' 08, 10 10 10 venue IP(PK) Event IP (PK) Afforder (k): Name varoual Namo varchar Name Contact INFO Date DATE, Location warding venue ID (K) Email WARCHRA Capacity INT 5000 Jan. 171.5. Dicket ficketsales . Tickef PK) IM Vicketsale (PK) EventID(FK) INT Event 2D (FE) INT , XIV 11. price pecinal (mb) Affender (fk) INT Quantity INT sale pale DATE Type varous (d) Hall: Amount Decimal(0,4)

Physical model Explanation and the state of t Data Type: * Integer types (INT) for IDS and Capacities

* VARCHAR for text data like name and types

* Decimal for monetary amounts. Constraints ... A foreign keys entoxe referential integrity. SQL statements: CREATTE TABLE Events (EventID INT Primary Key Event Name YARCHAR (255), Event Date DATE, Event Timo TIME, (41 411. 3 venue ID INT, Andrew with the Capacity INT, Ticket price Decimal (10,2) CREATE TABLE Venues (venue IP INT Primary key. venue Name VARCHOR(255) Address VARCHAR (255) city VARCHAR (60) State VARCHAR (100)

```
CREATE TABLE Tickets (
 Tickel ID INT Primary key; 11 19 1911 19
  EventIP INT,
 Altendee ID INTO
 Ticket type VARCHAR (100),
 ticket status MRCHAR (100),
 Purchase Date DATE,
 purchase Timo TIME, Colorable and or solvente.
 price paid pecimal (10,2),
Foreign Key (Event 10) References
Events (Event ID),
 FOREIGN KEY CAHANDEE ID), REFERENCES
 Attendees (Attendee ID)
CREATE TABLE Attendees (
   AltendeelD INT Primary key,
   fiors Name MARCHAR (100),
    Last Name VARCHAR (100);
   Email VARCHAR (225)
  phone vARCHAR (20)
  )·,
```

CREATE TABLE Waitlist (waited INT PRIMARY KEY Event ID INT Altendee IDINT, waitlist pale DATE foreign key (Attendee 1D) REFERENCES waithist Time TIME, Attenders (Attender ID) Casti Ingiant in gra); iscorpolate Collary without The State of 200012 LEV Caltordee D. SEA LENCES Coll minerally reprosent 1. 19/6 - 10/4 /6. + 1 per per (for process me disconting · (act) of magan some in the · Carli boll in the sound of a " - " () (()) () - " () . ") Spin - ALCHING