Coachella Queries SQL Code

QUERY 1: Total Revenue by Ticket Type

Query 1 gives us valuable information on the total revenue by ticket type. This can help us evaluate our marketing strategy for each ticket type and even perform an opportunity-cost analysis on the different ticket prices.

SELECT Ticket_Type, SUM(Price) AS total_revenue FROM Ticket GROUP BY Ticket_Type;

QUERY 2: The Most Popular Performance

Query 2 informs decisions about artist selection, venue capacity, and targeted marketing for successful events.

SELECT

Performance.Performance_ID,
Artist.Name AS Artist_Name,
Performance.Date AS Performance_Date,
COUNT(Attends.Buyer_ID) AS Total_Attendees

FROM

Performance

JOIN Artist ON Performance.Artist_ID = Artist.Artist_ID

JOIN Attends ON Performance.Performance_ID = Attends.Performance_ID

GROUP BY

Performance.Performance_ID, Artist.Name, Performance.Date

ORDER BY

Total_Attendees DESC;

QUERY 3: Identifying Understaffed Areas: Employee Coverage vs. Stage Capacity

Query 3 shows us *which areas are understaffed* based on employee assignments relative to stage capacity. This can help in reallocating employees to other areas to ensure smooth operations.

SELECT

A.Area_Name,
SUM(S.Capacity) AS Total_Stage_Capacity,
COUNT(E.Employee_ID) AS Employees_Assigned,
(SUM(S.Capacity) / COUNT(E.Employee_ID)) AS Capacity_Per_Employee
FROM Area A
JOIN Stage S ON A.Area_ID = S.Area_ID
LEFT JOIN Employees E ON A.Area_ID = E.Area_ID
GROUP BY A.Area_Name
ORDER BY Capacity_Per_Employee DESC;

Query 4 provides a breakdown of *the number of artists based on their type* (e.g. Headliner, Set, Guest Appearance) and genre (eg. Hip Hop, Pop, Electronic). This is useful for analyzing the diversity of artist types and genres represented in the event.

SELECT
Artist_Type,
Genre,
COUNT(Artist_ID) AS Total_Artists
FROM
Artist
GROUP BY
Artist_Type, Genre
ORDER BY

QUERY 5: The Most Crowded Day

Artist_Type ASC, Genre ASC;

Query 5 helps with event logistics, crowd management, and identifying peak days for future planning.

SELECT

Performance.Date AS Event_Date, COUNT(Attends.Buyer_ID) AS Total_Attendees

FROM

Performance

JOIN

Attends ON Performance_Performance_ID = Attends.Performance_ID

GROUP BY

Performance.Date

ORDER BY

Total_Attendees DESC

LIMIT 1;

QUERY 6: The Most Popular Genre

Query 6 offers insights into market trends and helps curate relevant events, recruit talent, and align marketing efforts with audience preferences.

SELECT Genre, COUNT(*) AS Artist_Count FROM Artist GROUP BY Genre ORDER BY Artist_Count DESC LIMIT 1;