|  |  |
| --- | --- |
|  |  |
| Question 1 | What are total unit sales in Fighting genre by Publisher in 2023? |
|  |  |
| SQL Query | SELECT Publisher,  SUM(Units) AS Total\_Unit\_Sales  FROM midb\_table  WHERE lower([Main Genre]) = 'fighting'  AND strftime('%Y', [Processing Date Month]) = '2023'  GROUP BY Publisher; |
|  |  |
| insights | 1. The publisher with the highest total unit sales in the fighting genre in 2023 is bandai namco with 3,026,584 units. 2. Capcom follows with 2,575,194 units sold in the fighting genre in 2023. 3. Ubisoft also performed strongly with 2,982,687 units sold in the fighting genre in 2023. 4. Nintendo sold 2,015,148 units in the fighting genre in 2023, making it another top performer. 5. Activision blizzard had the lowest total unit sales in the fighting genre in 2023, with only 1 unit sold. |
|  |  |
| Plot |  |
|  |  |
| VALIDATION | bandai namco- 3,026,584  Capcom- 2,575,194  Ubisoft - 2,982,687 |
|  |  |
| Tokens | {'prompt\_tokens': 12602, 'completion\_tokens': 1314} |

|  |  |
| --- | --- |
|  |  |
| Question 2 | What were the number of games released in 2023? |
|  |  |
| SQL Query | SELECT COUNT(DISTINCT Title) AS Total\_Games\_Released  FROM midb\_table  WHERE strftime('%Y', `Release Date Month`) = '2023'; |
|  |  |
| insights | A total of 85 games were released in 2023. |
|  |  |
| Plot |  |
|  |  |
| Tokens | {'prompt\_tokens': 9388, 'completion\_tokens': 593} |

|  |  |
| --- | --- |
|  |  |
| Question 3 | How many units did Assassin's Creed: Valhalla sell in lifetime? |
|  |  |
| SQL Query | SELECT SUM(Units) AS Total\_Units\_Sold  FROM midb\_table  WHERE lower(Title) LIKE "%assassin's creed: valhalla%" |
|  |  |
| insights | Assassin's creed: valhalla sold a total of 19,354,659 units in its lifetime. |
|  |  |
| Plot |  |
|  |  |
| Tokens | {'prompt\_tokens': 12409, 'completion\_tokens': 697} |

|  |  |
| --- | --- |
|  |  |
| Question 4 | What is the sum of Assassin's Creed: Valhalla's Total Revenue, Full game revenue In-game revenue? |
|  |  |
| SQL Query | SELECT SUM("Total Revenue") AS Total\_Revenue\_Sum,  SUM("Full Game Revenue") AS Full\_Game\_Revenue\_Sum,  SUM("In-Game Revenue") AS In\_Game\_Revenue\_Sum  FROM midb\_table  WHERE lower("Title") LIKE '%assassin''s creed: valhalla%' |
|  |  |
| insights | The sum of assassin's creed: valhalla's total revenue, full game revenue, and in-game revenue is $1,476,187,941. |
|  |  |
| Plot |  |
|  |  |
| Validation | Total Revenue - 1,476,187,941  Full Game Revenue - 1,005,780,761  In-Game Revenue - 470,407,180 |
|  |  |
| Tokens | {'prompt\_tokens': 16434, 'completion\_tokens': 927} |

|  |  |
| --- | --- |
|  |  |
| Question 5 | What is % In-game revenue share wrt Total revenue for Assassin's Creed: Valhalla during its first 2 years? |
|  |  |
| SQL Query | SELECT (SUM("In-Game Revenue") \* 100.0 / SUM("Total Revenue")) AS in\_game\_revenue\_share\_percentage  FROM midb\_table  WHERE LOWER(Title) LIKE '%assassin''s creed: valhalla%'  AND "Month Since Launch" <= 24; |
|  |  |
| insights | In-game revenue accounted for 29.51% of the total revenue for assassin's creed: valhalla during its first two years. |
|  |  |
| Plot |  |
|  |  |
| Validation | (SUM("In-Game Revenue") \* 100.0 / SUM("Total Revenue")) = (377056109\*100)/1277876740=29.50645372886277 |
|  |  |
| Token | {'prompt\_tokens': 13374, 'completion\_tokens': 970} |

|  |  |
| --- | --- |
|  |  |
| Question 6 | What is Average MAU by Platform for Assassin's Creed: Valhalla? |
|  |  |
| SQL Query | SELECT Platform,  AVG(Mau) AS Average\_MAU  FROM midb\_table  WHERE LOWER(Title) LIKE '%assassin''s creed: valhalla%'  GROUP BY Platform; |
|  |  |
| insights | 1. The average monthly active users (mau) for the console platform is approximately 200,146. 2. The average monthly active users (mau) for the pc platform is approximately 285,047. 3. The pc platform has a higher average mau compared to the console platform for assassin's creed: valhalla. |
|  |  |
| Plot |  |
|  |  |
| Validation | Avg. MAU Pc -285,046.5138888889  Avg. MAU console- 200,146.3993055556 |
|  |  |
| tOKENS | {'prompt\_tokens': 15355, 'completion\_tokens': 1197} |

|  |  |
| --- | --- |
|  |  |
| Question 7 | What is % share of Action Adventure genre in last 10 years Total revenue? |
|  |  |
| SQL Query | SELECT (SUM(CASE  WHEN LOWER("Main Genre") = 'action-adventure' THEN "Total Revenue"  ELSE 0  END) \* 100.0 / SUM("Total Revenue")) AS action\_adventure\_share\_percentage  FROM midb\_table  WHERE "Processing Date Month" >= date('now', '-10 years'); |
|  |  |
| insights | Action adventure genre accounted for 22.79% of the total revenue in the last 10 years. |
|  |  |
| Plot |  |
|  |  |
| Validation |  |
|  |  |
| TOEKNS | {'prompt\_tokens': 10072, 'completion\_tokens': 847} |

|  |  |
| --- | --- |
|  |  |
| Question 8- A | What is the % increase in Action adventure Total revenue from last year? |
|  |  |
| SQL Query | WITH revenue\_by\_year AS  (SELECT strftime('%Y', "Processing Date Month") AS YEAR,  SUM("Total Revenue") AS total\_revenue  FROM midb\_table  WHERE LOWER("Main Genre") = 'action-adventure'  AND strftime('%Y', "Processing Date Month") IN (strftime('%Y', date('now', '-1 year')),  strftime('%Y', date('now')))  GROUP BY YEAR)  SELECT ((current\_year.total\_revenue - previous\_year.total\_revenue) \* 100.0 / previous\_year.total\_revenue) AS percentage\_increase  FROM revenue\_by\_year AS current\_year  JOIN revenue\_by\_year AS previous\_year ON current\_year.year = strftime('%Y', date('now'))  AND previous\_year.year = strftime('%Y', date('now', '-1 year')); |
|  |  |
| insights | The action adventure total revenue decreased by 33.09% from last year. |
|  |  |
| Plot |  |
|  |  |
| validation | Total Revenue 2024 – 7735610981  Total Revenue 2024 – 11561395703  (7735610981-11561395703)\*100/11561395703= -33.091028283092754 |
|  |  |
| Tokens | {'prompt\_tokens': 19392, 'completion\_tokens': 1407} |

|  |  |
| --- | --- |
|  |  |
| Question 8 -B | What is the % increase in Action adventure Total revenue from last year? |
|  |  |
| SQL Query | WITH revenue\_by\_year AS  (SELECT strftime('%Y', "Processing Date Month") AS YEAR,  SUM("Total Revenue") AS total\_revenue  FROM midb\_table  WHERE LOWER("Main Genre") LIKE '%action-adventure%'  GROUP BY YEAR  ORDER BY YEAR DESC)  SELECT r1.year AS current\_year,  r1.total\_revenue AS current\_revenue,  r2.total\_revenue AS previous\_revenue,  ((r1.total\_revenue - r2.total\_revenue) \* 100.0 / r2.total\_revenue) AS percentage\_increase  FROM revenue\_by\_year r1  JOIN revenue\_by\_year r2 ON CAST(r1.year AS INTEGER) = CAST(r2.year AS INTEGER) + 1; |
|  |  |
| insights | 1. From 2023 to 2024, the total revenue for action-adventure games decreased by 33.09%. 2. From 2022 to 2023, the total revenue for action-adventure games increased by 10.88%. 3. From 2021 to 2022, the total revenue for action-adventure games decreased by 10.71%. |
|  |  |
| Plot |  |
|  |  |
| validation | Total Revenue 2024 – 7735610981  Total Revenue 2024 – 11561395703  (7735610981-11561395703)\*100/11561395703= -33.091028283092754 |
|  |  |
| Tokens | {'prompt\_tokens': 24403, 'completion\_tokens': 2272} |

|  |  |
| --- | --- |
|  |  |
| Question 9 -A | How is Action adventure Total revenue share by Business model in last 5 years? |
|  |  |
| SQL Query | SELECT "Business Model",  SUM("Total Revenue") AS Total\_Revenue\_Share  FROM midb\_table  WHERE LOWER("Main Genre") = 'action-adventure'  AND "Processing Date Month" >= date('now', '-5 years')  GROUP BY "Business Model"  ORDER BY Total\_Revenue\_Share DESC; |
|  |  |
| insights | 1. The 'premium' business model generated the highest total revenue share for action-adventure games in the last 5 years, amounting to 50,155,972,769. 2. The 'f2p' (free-to-play) business model contributed significantly less, with a total revenue share of 3,723,138,949. 3. The premium model dominates the revenue share for action-adventure games, indicating a preference for paid content in this genre. |
|  |  |
| Plot |  |
|  |  |
| vALIDATION | 'premium' - 50,155,972,769  'f2p' - 3,723,138,949 |
|  |  |
| tOEKNS | {'prompt\_tokens': 15930, 'completion\_tokens': 1222} |

|  |  |
| --- | --- |
|  |  |
| Question 9 -B | How is Action adventure Total revenue share by Business model in last 5 years? |
|  |  |
| SQL Query | SELECT [Business Model],  SUM([Total Revenue]) AS Total\_Revenue,  (SUM([Total Revenue]) \* 100.0 /  (SELECT SUM([Total Revenue])  FROM midb\_table  WHERE LOWER([Main Genre]) = 'action-adventure'  AND [Processing Date Month] >= date('now', '-5 years'))) AS Revenue\_Share\_Percentage  FROM midb\_table  WHERE LOWER([Main Genre]) = 'action-adventure'  AND [Processing Date Month] >= date('now', '-5 years')  GROUP BY [Business Model]; |
|  |  |
| insights | 1. The 'premium' business model dominates the revenue share for action-adventure games in the last 5 years, contributing 93.09% of the total revenue. 2. The 'f2p' (free-to-play) business model accounts for 6.91% of the total revenue for action-adventure games in the last 5 years. 3. The total revenue for the 'premium' model is significantly higher than the 'f2p' model, indicating a preference for paid games in this genre. |
|  |  |
| Plot |  |
|  |  |
| vALIDATION | 'premium' - 50,155,972,769  'f2p' - 3,723,138,949 |
|  |  |
| tOEKNS | {'prompt\_tokens': 15930, 'completion\_tokens': 1222} |

|  |  |
| --- | --- |
|  |  |
| Question 10 | What are the Top 5 titles in Action adventure wrt Total revenue? |
|  |  |
| SQL Query | SELECT Title,  SUM("Total Revenue") AS Total\_Revenue  FROM midb\_table  WHERE LOWER("Main Genre") = 'action-adventure'  GROUP BY Title  ORDER BY Total\_Revenue DESC  LIMIT 5; |
|  |  |
| insights | 1. The top title in the action-adventure genre based on total revenue is 'grand theft auto v' with a revenue of $7,911,439,309. 2. 'minecraft' ranks second with a total revenue of $4,721,668,610. 3. 'genshin impact' is third with a revenue of $3,503,038,328. 4. 'red dead redemption ii' is fourth with a revenue of $2,974,954,446. 5. 'the legend of zelda: breath of the wild' is fifth with a revenue of $2,395,353,645. |
|  |  |
| Plot |  |
|  |  |
| VALIDATION | Grand Theft Auto V - 7,911,439,309  Minecraft – 4,721,668,610  Genshin Impact – 3,503,038,328  Red Dead Redemption II – 2,974,954,446  The Legend of Zelda: Breath of the Wild - 2,395,353,645 |
|  |  |
| toekns | {'prompt\_tokens': 15535, 'completion\_tokens': 1450} |

|  |  |
| --- | --- |
|  |  |
| Question 11 | What % of Total revenue share by Genre in last 5 years at year level |
|  |  |
| SQL Query | SELECT strftime('%Y', "Processing Date Month") AS YEAR,  "Main Genre",  SUM("Total Revenue") AS Genre\_Revenue,  (SUM("Total Revenue") \* 100.0 / SUM(SUM("Total Revenue")) OVER (PARTITION BY strftime('%Y', "Processing Date Month"))) AS Revenue\_Share\_Percentage  FROM midb\_table  WHERE "Processing Date Month" >= date('now', '-5 years')  GROUP BY YEAR,  "Main Genre"  ORDER BY YEAR,  Revenue\_Share\_Percentage DESC; |
|  |  |
| insights | Due to large dataset the insights could not be generated. You can download the resultset from the data tab |
|  |  |
| Plot |  |
|  |  |
| VALIDATION |  |
|  |  |
| TOKENS | {'prompt\_tokens': 10763, 'completion\_tokens': 1051} |

|  |  |
| --- | --- |
|  |  |
| Question 12 | What is most selling Premium business model game by year? |
|  |  |
| SQL Query | WITH YearlySales AS  (SELECT strftime('%Y', `Processing Date Month`) AS YEAR,  Title,  SUM(Units) AS TotalUnits  FROM midb\_table  WHERE LOWER(`Business Model`) = 'premium'  GROUP BY YEAR,  Title),  RankedSales AS  (SELECT YEAR,  Title,  TotalUnits,  RANK() OVER (PARTITION BY YEAR  ORDER BY TotalUnits DESC) AS Rank  FROM YearlySales)  SELECT YEAR,  Title,  TotalUnits  FROM RankedSales  WHERE Rank = 1; |
|  |  |
| insights | Due to large dataset the insights could not be generated. You can download the resultset from the data tab |
|  |  |
| Plot |  |
|  |  |
|  |  |
|  |  |
| tokens | {'prompt\_tokens': 11628, 'completion\_tokens': 1020} |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |

|  |  |
| --- | --- |
|  |  |
| Question |  |
|  |  |
| SQL Query |  |
|  |  |
| insights |  |
|  |  |
| Plot |  |