(SQL, DW - Most Asked Questions in the Interviews and My Interview Experience)

SQL

1. Employee salary is greater than Manager's salary (SELF JOIN)
2. 2nd Highest or nth Highest salary in each department (Use CTE, it will show you know the logic)
3. UNIION and UNIONALL (They will give you a scenario)
4. Number of duplicates in a Table
5. How to remove duplicates from the table
6. How to calculate YoY growth %
7. Employees joined in the last 3 months or n months
8. CROSS JOIN (What exactly you will see the in the results)
9. Differences between dense rank, Rank, row number
10. Customers who haven't made any sales (To check joins knowledge)
11. JOINS and Their results (Familiarize yourself with results of each join)
12. Stored procedure use cases
13. VIEWS, why we create them

Data Warehouse Questions

1. SURROGATE KEY And Natural Key Differences (IMP)
2. Different Types OF SCD (Imp)
3. Temporal Table
4. What is fact less fact tables? Give a use case.
5. What is Granularity in Data Warehouse?

(Most Asked Questions in the Interviews and My Interview Experience)

Power BI – Data Modelling

1. Best Practices to Optimize your Data Model in Both Direct Query and Import Mode?
2. What's the difference between Both Direct Query and Import Mode? (They can go deep as what if we have a huge data to load)
3. Familiarity with the requirements, what can be done if done we don't want to touch the data model for changing the filter direction between tables. (Always a keep a good use case handy to explain)
4. How you manage dual mode of data import? What exactly can be done if we want to avoid the query load?
5. Many to Many relationships why it occurs? (Explain the scenario), and how to fix it, End to End steps (Not just Creating a bridge table)
6. Have you implemented dynamic RLS? How you manage the tables relationships to maintain the data integrity
7. Which schema do you prefer? (Totally based on the requirements)
8. **Can a factless fact table be used as a bridge for many-to-many?**

Power BI – Power Query

1. Parameters use cases (Switching Data sources specially, proper use case)
2. Duplicate and Reference (Differences, can you give us a scenario for both)
3. You want to push your transformation towards the data source? What exactly can be done in this case?
4. What you prefer? Transformation in the Power query? Or Pushing queries or transformation in source itself?
5. Column profiling how does it helps?
6. How you handle nulls or blanks?
7. Do you know how to read MCODE?
8. Group by – why exactly we use group by?

Power BI – DAX

1. SUM and SUMX (To check your Row Context, Filter Context, Iterator knowledge)
2. Running Total – With Date, Without Date
3. YoY, Growth %
4. RANKX (Ultra Important, use cases of Rank,), Rank (2 Columns in a Matrix)
5. How you handle the LIMIATIONS of Certain DAX Functions in Direct Query Mode, how you Manage and achieve the desired, best practices
6. RELATED AND RELATEDTABLE
7. What if your DAX measures are very slow, what are steps you can implement to enhance your Dax functions (Always give a scenario)
8. DATESYTD, TOTALYTD (Difference)
9. “VALUES”, “ALL”, “FILTER” (USECASES)
10. TOPN Customers Use case with Dax and without Dax
11. Moving Average use case
12. SWITCH and IF (Differences with use cases)
13. SAMEPERIODLASTYEAR, PARRALLELPERIOD

Power BI – Visuals

1. Field Parameters (Important, use case)
2. Bookmarks (Use cases)
3. Drill-Throughs
4. Filter Interactions among Visuals
5. Use case of each chart, when to use which, specially Scatter plot and Waterfall chart
6. Best Practices formatting, number of visuals

Power BI – Service

1. DATAFLOWS (Have you used one? And why?)
2. How you manage version controls of the publish reports?
3. Deployment pipeline?
4. Different user access? Whom to assign which roles based on the requirements?
5. Have you created app?
6. How can achieve dynamic automated data refreshes?
7. How manage Security of the reports? What exactly you need to do?
8. High level knowledge of Licences
9. Latest updates, (Important)

Power BI – Best Practices

1. What are things that you will consider before you start building a report? (A checklist)
2. Extremely Important (If you talk the below points, it will definitely give you a great impression)
   A: How you can enhance the report performance in "IMPORT MODE"
   B: How you can enhance the report performance in "DIRECT MODE"