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ASSIGNMENT - 11
(Power Pivot & Solver)

Ques.1 What is Power Pivot, and how does it extend the capabilities of Excel?

Ans.1) Power Pivot is an advanced data modeling tool in Excel.
- It allows working with large datasets (millions of rows)
- It enables multiple-table analysis using relationships.
- Uses DAX (Data Analysis Expressions) for powerful calculations.

Benefits:
- Faster performance than normal excel formulas
- Advanced calculations and KPIs
- Better support for Pivot Tables.

Power Pivot turns Excel into a mini BI tool.

Ques.2 How do you import data into Power Pivot from multiple sources?

Ans.2) Go to Power Pivot Tab → Manage
- Click get data.
- Choose Sources:
  - Exal
  - CSV/Teext
  - SQL Server
  - Access
- Load each dataset into the Data Model.

Result: Multiple Tables are imported and can be related together.

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Ques.3 Explain the process of creating relationships between tables in Power Pivot.

Ans.3 ⇒ Open Power Pivot → Manage.
- Switch to Diagram View
- Drag a primary key from one table to a foreign key in another.
- Ensure data types match.

EXAMPLE: Customer ID in Customers Table → Customer ID in Orders Table.

Relationships allow combining data across tables in Pivot Tables.

Ques.4 How would you create calculated columns and measures in Power Pivot?

Ans.4 ⇒ Calculated Columns:
- Works row by row
- Created inside a table.

EXAMPLE: Total Price = Quantity * Price.

Measure:
- Used in Pivot Tables.
- Aggregates data.

EXAMPLE: Total Sales = SUM (Sales[Amount])

Calculated columns store data, measures calculate results dynamically.

Ques.5 What is the purpose of the Solver add-in in Excel?

Ans.5 ⇒ Solver is used to find the best solution to a problem.
- It changes selected cells to maximise, minimise, or reach a target value.

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- Commonly used in:
  - Profit Maximization
  - Cost Minimization
  - Resource Allocation.

EXAMPLE: Maximise profit while staying within budget limits.

Ques·6 How do you set up constraints in Solver to optimise a solution?

Ans·6 ⇒ Enable Solver from Excel Add-ins.

1. Go to Data → Solver
2. Set:
   - Objective cell (Max / Min / Value)
   - Variable cells.
3. Click Add to define constraints:
   - ≤, ≥, or =
   - Integer or Binary limits.
4. Click Solve

EXAMPLE: Total Cost ≤ Budget
Unit Produced ≥ 0

Constraints ensure the solution is realistic and valid.