ROHIT KUMAR SINGH (UE203 893) Cost Calculation Cost Project (n, m) = m \*n Explanation: The cost of the PROJECT operation is proportional to the number of tuples (n) in the input relation multiplied by the member of attributes (m) to the project. Each tuple needs to be processed to retain only the specified attributes 2. UNION: " Cost Function: Cost - Union (m1, m2) 6 Lost Calculation: cost\_Unin (n1, n2) = n1+ n2 " Explanation: The cost of the UNION operation is the Sum of the tuples in both input relations. This assumes that duplicate elimination is not costly; otherwise, additional operations may be involved 3. INTERSECTION · Lost Function: Cost\_ Intersection (nim2) Porom. Cost Calculation: min (n1, n2) Explanation: The cost of the INTERSECTION operation is the minimum of the tuples in both input relations since we only need to keep the common tuples between them. 4. SET DIFFERENCE Last function: Cast set Difference (m1, n2) Cost Calculation: Cost set Difference (n; n2) = n1 Explanation: The cost of the SET DIFFERENCE operation is equivalent to the no. of tuples in the first relation since we retain all tiples

sold drung Reverité. Drach has a feature called livery Reverite that can automatically reverite certain to improve performance. For Exviews to optimize query executi Query Hints: Oracle provides query dints that allow database administrators or developer to influence the optimizer's choice for specific queries

CARTESIAN PRODUCT Cost Function: Cost Cartesian Product (n1, n2) Cost Calculation: Cost-Cartesians Product (n1, n2)= Wty Explanation: The cost of the CARTESIAN PRODUCT
operation in the product of the har of tuples in both relation. Solid Representation of a relational Algebra Expression leaf Nodes Internal Nodes Edges The rules for transformation of query trees during query optimization 1. selection Pushdown 2 Projection Pushdown 3. Jain Reader 4. Join Decomposition Union 11 Set operation Pushdown Sol:3 Que to commutative and associative rules of the given operation. All permutation are valid so Diff. join orders = n1 = 101 left deep Join tree is a binary tree which might child of each non-lag node always a base relation. left deep trees are also = ul =101