Max Budget (GB)	Metric	Drop	Extend	DB2Advis	AutoAdmin
0.25	% of initial cost	**100.00**	**99.09**	**99.70**	**100.00**
	New Indexes	-	I[PS.PS_suppkey]	I[P.P_brand], I[C.C_custkey], I[S.S_nationkey,S.S_suppkey], I[P.P_container,P.P_size], I[S.S_suppkey,S.S_nationkey], I[S.S_nationkey]	-
0.5	% of initial cost	**100.00**	**97.60**	**99.42**	**100.00**
	New Indexes	-	I[O.O_orderkey]	I[C.C_custkey,C.C_nationkey], I[C.C_nationkey,C.C_custkey], I[P.P_type,P.P_partkey]	-
1	% of initial cost	**100.00**	**95.06**	**98.69**	**100.00**
	New Indexes	-	I[O.O_custkey,O.O_orderkey]	I[P.P_size], I[O.O_orderstatus,O.O_orderkey]	-
1.5	% of initial cost	**100.00**	**94.15**	**96.68**	**100.00**
	New Indexes	-	I[C.C_custkey]	I[O.O_custkey]	-
2	% of initial cost	**83.03**	**80.62**	**95.58**	**83.03**
	New Indexes	I[L.L_orderkey]	I[L.L_orderkey]	I[C.C_mktsegment,C.C_custkey], I[PS.PS_suppkey]	I[L.L_orderkey]
2.5	% of initial cost	**83.03**	**79.63**	**93.97**	**80.29**
	New Indexes	-	-	I[O.O_orderkey,O.O_orderdate]	I[O.O_orderkey, O.O_orderpriority]
3	% of initial cost	**83.03**	**77.18**	**80.61**	**80.29**
	New Indexes	-	-	I[L.L_orderkey]	-
3.5	% of initial cost	**77.03**	**77.18**	**78.73**	**76.83**
	New Indexes	I[L.L_partkey]	-	-	I[O.O_custkey, O.O_orderkey], I[PS.PS_suppkey], I[C.C_custkey]
4.25	% of initial cost	**71.89**	**71.71**	**77.11**	**76.83**
	New Indexes	I[O.O_orderkey], I[PS.PS_suppkey], I[O.O_custkey], I[C.C_custkey]	I[L.L_partkey,L.L_suppkey]	-	-
5	% of initial cost	**71.89**	**71.49**	**76.55**	**76.83**
	New Indexes	-	I[O.O_orderkey,O.O_orderpriority]	I[O.O_custkey,O.O_orderkey]	-
5.75	% of initial cost	**71.69**	**69.03**	**76.32**	**76.83**
	New Indexes	I[L.L_shipdate]	-	I[O.O_orderkey,O.O_orderpriority]	-
6.5	% of initial cost	**71.53**	**69.03**	**74.73**	**70.70**
	New Indexes	I[P.P_partkey], I[S.S_suppkey], I[P.P_brand], I[S.S_nationkey], I[O.O_shippriority], I[C.C_phone], I[C.C_comment]	-	I[L.L_orderkey,L.L_quantity]	I[L.L_partkey, L.L_shipmode], I[P.P_partkey, P.P_type]
8	% of initial cost	**71.44**	**69.03**	**74.09**	**70.70**
	New Indexes	I[PS.PS_availqty], I[PS.PS_partkey], I[S.S_phone], I[O.O_orderstatus]	-	-	-
10	% of initial cost	**71.44**	**69.03**	**74.09**	**70.31**
	New Indexes	I[L.L_extendedprice]	-	I[L.L_orderkey,L.L_suppkey]	I[L.L_shipdate], I[O.O_custkey], I[P.P_brand, P.P_size], I[S.S_suppkey], I[S.S_nationkey, S.S_suppkey]
12.5	% of initial cost	**71.44**	**69.03**	**71.05**	**70.31**
	New Indexes	I[L.L_shipinstruct]	-	I[L.L_shipmode,L.L_partkey]	I[L.L_partkey]
15	% of initial cost	**71.44**	**69.03**	**69.44**	**70.31**
	New Indexes	I[C.C_address], I[L.L_returnflag], I[C.C_nationkey]	-	I[L.L_suppkey,L.L_partkey]	-

Table 4: Comparison of index selection sequence for the TPC-H benchmark (scale factor 10) on PostgreSQL with index combinations identified by the different algorithms for memory budgets from 0 to 15 GB. The table demonstrates which indexes are added by the different algorithms in which step. This illustration highlights the differences between the algorithms. Queries 2, 17, and 20 are excluded.