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27 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Train.csv'
28 INTO TABLE Tableofdatabase
29 FIELDS TERMINATED BY ','
30 ENCLOSED BY '"'
31 LINES TERMINATED BY '\n'
32 IGNORE 1 ROWS;
33
34 -- Step 4: Data exploration queries
35 • SELECT * FROM Tableofdatabase LIMIT 10;
36 • SELECT COUNT(*) AS total_shipments FROM Tableofdatabase;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	total_shipments			
▶	10999			

```

38 -- Step 5: Delivery status counts
39 • SELECT Reached_on_Time_Y_N AS delivery_status, COUNT(*) AS count
40 FROM Tableofdatabase
41 GROUP BY Reached_on_Time_Y_N;
42
43 -- Step 6: Average cost per shipment method
44 • SELECT Mode_of_Shipment, AVG(Cost_of_the_Product) AS avg_cost
45 FROM Tableofdatabase
46 GROUP BY Mode_of_Shipment;
47
48 -- Step 7: Revenue per warehouse (net)
49 • SELECT Warehouse_block, SUM(Cost_of_the_Product - Discount_offered) AS total_revenue
50 FROM Tableofdatabase
51 GROUP BY Warehouse_block;

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	delivery_status	count			
▶	1	6563			
	0	4436			

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Mode_of_Shipment	avg_cost			
▶	Flight	209.306697			
	Ship	210.343072			
	Road	210.475568			

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Warehouse_block	total_revenue			
▶	D	362791.00			
	F	716370.00			
	A	358434.00			
	B	364716.00			
	C	362552.00			

```

53  -- Step 8: Delays by product importance
54  • SELECT Product_importance, COUNT(*) AS delayed_count
55      FROM Tableofdatabase
56      WHERE Reached_on_Time_Y_N = 0
57      GROUP BY Product_importance;
58
59  -- Step 9: Top 5 delayed expensive shipments
60  • SELECT ID, Cost_of_the_Product
61      FROM Tableofdatabase
62      WHERE Reached_on_Time_Y_N = 0
63      ORDER BY Cost_of_the_Product DESC
64      LIMIT 5;

```

Result Grid			Filter Rows:	Export:
	Product_importance	delayed_count		
▶	medium	1947		
	low	2157		
	high	332		

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:	Fetch rows:
	ID	Cost_of_the_Product					
▶	5025	310.00					
	5220	310.00					
	5041	310.00					
	5256	310.00					
	4565	310.00					
*	NULL	NULL					

```

66 -- Step 10: Subquery - above average product cost
67 • SELECT ID, Cost_of_the_Product
68 FROM Tableofdatabase
69 WHERE Cost_of_the_Product > (
70     SELECT AVG(Cost_of_the_Product) FROM Tableofdatabase
71 );
72
73 -- Step 11: Create a view for high-value delayed shipments
74 • CREATE VIEW high_value_delays AS
75 SELECT *
76 FROM Tableofdatabase
77 WHERE Reached_on_Time_Y_N = 0 AND Cost_of_the_Product > 250;

```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

Fetch rows:

	ID	Cost_of_the_Product
▶	2	216.00
	7	250.00
	8	233.00
	12	232.00
	14	275.00
	16	227.00
	18	227.00
	19	239.00
	22	232.00
	24	211.00
	25	251.00
	26	225.00
	29	234.00
	31	266.00
	32	257.00
	33	223.00
	34	234.00
	35	227.00
	39	215.00

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

Fetch rows:

ID	Cost_of_the_Product
2533	236.00
2534	229.00
2535	261.00
2536	229.00
2538	240.00
2540	252.00
2545	243.00
2548	235.00
2552	270.00
2554	220.00
2555	264.00
2558	223.00
2560	221.00
2561	216.00
2565	252.00
2568	255.00
2570	263.00
2572	212.00
2573	282.00
NULL	NULL

```

79      -- Step 12: Query the view
80  •    SELECT * FROM high_value_delays;
81
82      -- Step 13: Indexes for optimization
83  •    CREATE INDEX idx_warehouse ON Tableofdatabase(Warehouse_block);
84  •    CREATE INDEX idx_delivery ON Tableofdatabase(Reached_on_Time_Y_N);
85
86      -- Step 14: EXPLAIN plan (for performance check)
87  •    EXPLAIN SELECT * FROM Tableofdatabase WHERE Reached_on_Time_Y_N = 0;
88

```

Result Grid										
Filter Rows:										
Export: Wrap Cell Content: Fetch rows:										
ID	Warehouse_block	Mode_of_Shipment	Customer_care_calls	Customer_rating	Cost_of_the_Product	Prior_purchases	Product_importance	Gender	Discount_offered	Weight
3141	A	Road	3	3	256.00	4	medium	M	3.00	4732
3144	F	Road	3	3	253.00	3	medium	M	7.00	5085
3148	B	Flight	4	2	272.00	3	high	F	6.00	4559
3167	C	Flight	4	1	273.00	3	medium	M	5.00	5055
3174	F	Ship	4	2	272.00	3	high	M	7.00	5927
3178	B	Ship	2	1	274.00	10	high	F	1.00	5622
3193	D	Ship	4	5	273.00	3	medium	M	2.00	4374
3195	A	Ship	3	1	273.00	6	low	M	1.00	1293
3198	F	Ship	4	5	296.00	2	medium	M	1.00	1678
3200	F	Ship	4	4	301.00	5	low	M	6.00	1931
3201	A	Ship	4	3	296.00	3	low	M	4.00	1991
3212	F	Ship	3	5	251.00	2	low	M	4.00	4015
3224	F	Ship	5	4	269.00	3	low	F	3.00	4489
3272	F	Road	5	4	263.00	2	medium	F	5.00	4595
3292	B	Flight	5	1	270.00	2	high	M	10.00	5360
3294	F	Flight	5	2	257.00	4	medium	M	9.00	5088
3310	B	Ship	4	3	271.00	3	medium	M	1.00	4137
3319	D	Ship	3	2	254.00	2	low	M	1.00	4334
3335	C	Ship	6	5	266.00	5	low	M	10.00	4140
3340	B	Ship	4	1	272.00	2	medium	F	5.00	5252

Result Grid											
Filter Rows:											
Export: Wrap Cell Content:											
id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
1	SIMPLE	Tableofdatabase	10000	ref	idx_delivery	idx_delivery	2	const	4436	100.00	10000