route_id	date	order_id	sequence_no	depot_name	depot_lat
RT001	30-01-2024	ORD1201	1	London Central	51.5074
RT001	30-01-2024	ORD1202	2	London Central	51.5074
RT001	30-01-2024	ORD1203	3	London Central	51.5074
RT002	30-01-2024	ORD1204	1	London Central	51.5074
RT002	30-01-2024	ORD1205	2	London Central	51.5074
RT002	30-01-2024	ORD1206	3	London Central	51.5074
RT003	30-01-2024	ORD1207	1	London Central	51.5074
RT003	30-01-2024	ORD1208	2	London Central	51.5074
RT003	30-01-2024	ORD1209	3	London Central	51.5074
RT004	30-01-2024	ORD1210	1	London Central	51.5074
RT004	30-01-2024	ORD1211	2	London Central	51.5074
RT004	30-01-2024	ORD1212	3	London Central	51.5074
RT005	30-01-2024	ORD1213	1	London Central	51.5074
RT005	30-01-2024	ORD1214	2	London Central	51.5074
RT005	30-01-2024	ORD1215	3	London Central	51.5074
RT006	30-01-2024	ORD1216	1	London Central	51.5074
RT006	30-01-2024	ORD1217	2	London Central	51.5074
RT006	30-01-2024	ORD1218	3	London Central	51.5074
RT007	30-01-2024	ORD1219	1	London Central	51.5074
RT007	30-01-2024	ORD1220	2	London Central	51.5074
RT007	30-01-2024	ORD1221	3	London Central	51.5074
RT008	30-01-2024	ORD1222	1	London Central	51.5074
RT008	30-01-2024	ORD1223	2	London Central	51.5074
RT008	30-01-2024	ORD1224	3	London Central	51.5074
RT009	30-01-2024	ORD1225	1	London Central	51.5074
RT009	30-01-2024	ORD1226	2	London Central	51.5074
RT009	30-01-2024	ORD1227	3	London Central	51.5074
RT010	30-01-2024	ORD1228	1	London Central	51.5074
RT010	30-01-2024	ORD1229	2	London Central	51.5074
RT010	30-01-2024	ORD1230	3	London Central	51.5074
RT011	30-01-2024	ORD1231	1	London Central	51.5074
RT011	30-01-2024	ORD1232	2	London Central	51.5074
RT011	30-01-2024	ORD1233	3	London Central	51.5074
RT012	30-01-2024	ORD1234	1	London Central	51.5074
RT012	30-01-2024	ORD1235	2	London Central	51.5074
RT012	30-01-2024	ORD1236	3	London Central	51.5074
RT013	30-01-2024	ORD1237	1	London Central	51.5074
RT013	30-01-2024	ORD1238	2	London Central	51.5074
RT013	30-01-2024	ORD1239	3	London Central	51.5074
RT014	30-01-2024	ORD1240	1	London Central	51.5074
RT014	30-01-2024	ORD1241	2	London Central	51.5074
RT014	30-01-2024	ORD1242	3	London Central	51.5074
RT015	30-01-2024	ORD1243	1	London Central	51.5074
RT015	30-01-2024	ORD1244	2	London Central	51.5074
RT015	30-01-2024	ORD1245	3	London Central	51.5074

route_id	date	order_id	sequence_no	depot_name	depot_lat

RT016	30-01-2024 ORD1246	1 London Central	51.5074
RT016	30-01-2024 ORD1247	2 London Central	51.5074
RT016	30-01-2024 ORD1248	3 London Central	51.5074
RT017	30-01-2024 ORD1249	1 London Central	51.5074
RT017	30-01-2024 ORD1250	2 London Central	51.5074
RT017	30-01-2024 ORD1251	3 London Central	51.5074
RT018	30-01-2024 ORD1252	1 London Central	51.5074
RT018	30-01-2024 ORD1253	2 London Central	51.5074
RT018	30-01-2024 ORD1254	3 London Central	51.5074
RT019	30-01-2024 ORD1255	1 London Central	51.5074
RT019	30-01-2024 ORD1256	2 London Central	51.5074
RT019	30-01-2024 ORD1257	3 London Central	51.5074
RT020	30-01-2024 ORD1258	1 London Central	51.5074
RT020	30-01-2024 ORD1259	2 London Central	51.5074
RT020	30-01-2024 ORD1260	3 London Central	51.5074

depot_long	vehicle_id	vehicle_type	vehicle_capacity_kg	driver_id
-0.1278	VAN001	Transit	1200	DRV001
-0.1278	VAN001	Transit	1200	DRV001
-0.1278	VAN001	Transit	1200	DRV001
-0.1278	VAN002	Sprinter	1500	DRV002
-0.1278	VAN002	Sprinter	1500	DRV002
-0.1278	VAN002	Sprinter	1500	DRV002
-0.1278	VAN003	Luton	2000	DRV003
-0.1278	VAN003	Luton	2000	DRV003
-0.1278	VAN003	Luton	2000	DRV003
-0.1278	VAN004	Transit	1200	DRV004
-0.1278	VAN004	Transit	1200	DRV004
-0.1278	VAN004	Transit	1200	DRV004
-0.1278	VAN005	Sprinter	1500	DRV005
-0.1278	VAN005	Sprinter	1500	DRV005
-0.1278	VAN005	Sprinter	1500	DRV005
-0.1278	VAN006	Transit	1200	DRV006
-0.1278	VAN006	Transit	1200	DRV006
-0.1278	VAN006	Transit	1200	DRV006
-0.1278	VAN007	Sprinter	1500	DRV007
-0.1278	VAN007	Sprinter	1500	DRV007
-0.1278	VAN007	Sprinter	1500	DRV007
-0.1278	VAN008	Luton	2000	DRV008
-0.1278	VAN008	Luton	2000	DRV008
-0.1278	VAN008	Luton	2000	DRV008
-0.1278	VAN009	Transit	1200	DRV009
-0.1278	VAN009	Transit	1200	DRV009
-0.1278	VAN009	Transit	1200	DRV009
-0.1278	VAN010	Sprinter	1500	DRV010
-0.1278	VAN010	Sprinter	1500	DRV010
-0.1278	VAN010	Sprinter	1500	DRV010
-0.1278	VAN011	Transit	1200	DRV011
-0.1278	VAN011	Transit	1200	DRV011
-0.1278	VAN011	Transit	1200	DRV011
-0.1278	VAN012	Sprinter	1500	DRV012
-0.1278	VAN012	Sprinter	1500	DRV012
-0.1278	VAN012	Sprinter	1500	DRV012
-0.1278	VAN013	Luton	2000	DRV013
-0.1278	VAN013	Luton	2000	DRV013
-0.1278	VAN013	Luton	2000	DRV013
-0.1278	VAN014	Transit	1200	DRV014
-0.1278	VAN014	Transit	1200	DRV014
-0.1278	VAN014	Transit	1200	DRV014
-0.1278	VAN015	Sprinter	1500	DRV015
-0.1278	VAN015	Sprinter	1500	DRV015
-0.1278	VAN015	Sprinter	1500	DRV015

depot_long	vehicle_id	vehicle_type	vehicle_capacity_kg	driver_id

-0.1278 VAN016	Transit	1200 DRV016
-0.1278 VAN016	Transit	1200 DRV016
-0.1278 VAN016	Transit	1200 DRV016
-0.1278 VAN017	Sprinter	1500 DRV017
-0.1278 VAN017	Sprinter	1500 DRV017
-0.1278 VAN017	Sprinter	1500 DRV017
-0.1278 VAN018	Luton	2000 DRV018
-0.1278 VAN018	Luton	2000 DRV018
-0.1278 VAN018	Luton	2000 DRV018
-0.1278 VAN019	Transit	1200 DRV019
-0.1278 VAN019	Transit	1200 DRV019
-0.1278 VAN019	Transit	1200 DRV019
-0.1278 VAN020	Sprinter	1500 DRV020
-0.1278 VAN020	Sprinter	1500 DRV020
-0.1278 VAN020	Sprinter	1500 DRV020

driver_name	customer_name	delivery_address	postal_code
John Smith	Tesco Express	45 High Street	E1 6PQ
John Smith	Pret A Manger	156 Liverpool Street	EC2M 7PY
John Smith	Boots Pharmacy	123 Bishopsgate	EC2M 7PL
Emma Wilson	Costa Coffee	89 Cannon Street	EC4N 6DF
Emma Wilson	WHSmith	234 Queen Victoria St	EC4V 4BQ
Emma Wilson	Sainsbury Local	45 Thames Street	EC4R 3BG
Mohammed Ali	Waitrose	67 London Wall	EC2M 5TP
Mohammed Ali	M&S Food	123 Moorgate	EC2M 6UR
Mohammed Ali	Superdrug	45 London Wall	EC2M 5QD
Sarah Chen	Tesco Metro	234 Old Street	EC1V 9FR
Sarah Chen	Co-op Food	56 City Road	EC1Y 2BP
Sarah Chen	Boots	89 Great Eastern Street	EC2A 3HX
David Brown	Holland & Barrett	123 Cheapside	EC2V 6DN
David Brown	Greggs	45 London Wall	EC2M 5QD
David Brown	Starbucks	78 Moorgate	EC2M 6SE
Lisa Jones	Whole Foods Market	63-97 Kensington High St	W8 5SE
Lisa Jones	Planet Organic	42 Westbourne Grove	W2 5SH
Lisa Jones	Boots	127 Notting Hill Gate	W11 3LB
James Miller	Waitrose	98 Gloucester Road	SW7 4SS
James Miller	M&S Simply Food	278 King's Road	SW3 5AW
James Miller	Sainsbury's Local	151 Sydney Street	SW3 6NT
Emily Turner	Tesco Express	55 Baker Street	W1U 8EW
Emily Turner	Pret A Manger	321 Oxford Street	W1C 2HX
Emily Turner	Costa Coffee	184 Edgware Road	W2 2DS
Ryan Patel	Co-op Food	45 Queensway	W2 4QJ
Ryan Patel	Superdrug	236 Westbourne Grove	W11 2RH
Ryan Patel	Holland & Barrett	82 Notting Hill Gate	W11 3HP
Sophie Lee	Waitrose	94 Cromwell Road	SW7 4ER
Sophie Lee	Greggs	156 Fulham Road	SW10 9PR
Sophie Lee	Starbucks	267 King's Road	SW3 5EL
Alex Thompson	Tesco Express	76 Highbury Park	N5 2XE
Alex Thompson	Sainsbury's Local	253 Seven Sisters Road	N4 2DE
Alex Thompson	Boots	12 Stroud Green Road	N4 3EA
Maria Garcia	Co-op Food	164 Essex Road	N1 8LY
Maria Garcia	Planet Organic	23 Essex Road	N1 2SA
Maria Garcia	Superdrug	328 Upper Street	N1 2XQ
Tom Wilson	Waitrose	98 Liverpool Road	N1 1LA
Tom Wilson	M&S Simply Food	45 Chapel Market	N1 9ER
Tom Wilson	Whole Foods	63 Upper Street	N1 0NY
Hannah Kim	Costa Coffee	234 Camden High Street	NW1 8QS
Hannah Kim	Pret A Manger	176 Camden Road	NW1 9HG
Hannah Kim	Starbucks	89 Chalk Farm Road	NW1 8AR
Ben Roberts	Tesco Metro	55 Holloway Road	N7 8JL
Ben Roberts	Greggs	291 Holloway Road	N7 8HS
Ben Roberts	Holland & Barrett	475 Holloway Road	N7 6HN

Charlie Foster	Tesco Express	234 Brixton Road	SW9 6AQ
Charlie Foster	Sainsbury's Local	156 Clapham High St	SW4 7UH
Charlie Foster	Boots	45 Clapham Road	SW9 9BG
Daniel Wright	Co-op Food	89 Denmark Hill	SE5 8RS
Daniel Wright	Superdrug	167 Rye Lane	SE15 4TL
Daniel Wright	Holland & Barrett	23 Peckham High St	SE15 5EB
Sarah Martinez	Waitrose	128 Wandsworth Road	SW8 2LA
Sarah Martinez	M&S Simply Food	56 Clapham High Street	SW4 7UR
Sarah Martinez	Whole Foods	63 Lavender Hill	SW11 5QW
Mike O'Connor	Costa Coffee	234 Walworth Road	SE17 1JE
Mike O'Connor	Pret A Manger	176 Old Kent Road	SE1 5TY
Mike O'Connor	Starbucks	89 Tower Bridge Road	SE1 4TW
Lucy Chen	Tesco Metro	55 New Cross Road	SE14 5DJ
Lucy Chen	Greggs	291 Lewisham Way	SE4 1XF
Lucy Chen	Iceland Foods	475 Deptford High Street	SE8 4AF

customer_lat	customer_long	planned_departure_time
51.5173	-0.0755	07:00:00
51.5182	-0.0809	07:56:00
51.5159	-0.0821	08:34:00
51.5112	-0.0913	07:30:00
51.5118	-0.0962	08:16:00
51.5093	-0.0918	08:55:00
51.5156	-0.0859	08:00:00
51.5184	-0.0887	08:57:00
51.5161	-0.0872	09:41:00
51.5255	-0.0912	08:30:00
51.5242	-0.0875	09:30:00
51.5261	-0.0827	10:08:00
51.5147	-0.0942	09:00:00
51.5161	-0.0872	09:45:00
51.5179	-0.0889	10:20:00
51.5002	-0.1915	09:00:00
51.5152	-0.1892	10:07:00
51.509	-0.1957	10:55:00
51.4945	-0.1829	09:30:00
51.4847	-0.1744	10:34:00
51.4876	-0.1705	11:21:00
51.5176	-0.1561	10:00:00
51.5141	-0.1483	11:01:00
51.5169	-0.1644	11:36:00
51.5107	-0.1874	10:30:00
51.515	-0.196	11:23:00
51.5091	-0.1946	12:04:00
51.4945	-0.1851	11:00:00
51.4848	-0.1826	12:05:00
51.4847	-0.1743	12:41:00
51.5573	-0.0975	12:00:00
51.5642	-0.1002	13:04:00
51.5669	-0.1075	13:43:00
51.5419	-0.0974	12:30:00
51.5385	-0.0998	13:26:00
51.5411	-0.1027	14:09:00
51.5336	-0.1089	13:00:00
51.5323	-0.1106	14:04:00
51.5362	-0.1024	14:46:00
51.5392	-0.1425	13:30:00
51.5419	-0.1399	14:22:00
51.543	-0.1476	14:54:00
51.5494	-0.1167	14:00:00
51.5562	-0.1172	15:00:00
51.5605	-0.1168	15:34:00

51.4736	-0.1169	14:00:00
51.4621	-0.1384	15:03:00
51.4748	-0.1234	15:49:00
51.4685	-0.0891	14:30:00
51.4697	-0.0686	15:29:00
51.4735	-0.0692	16:13:00
51.4751	-0.1334	15:00:00
51.4653	-0.1383	16:07:00
51.4647	-0.1567	16:53:00
51.4886	-0.0989	15:30:00
51.4892	-0.0822	16:20:00
51.4983	-0.0831	16:57:00
51.4762	-0.0397	16:00:00
51.4699	-0.0352	17:06:00
51.4784	-0.0226	17:40:00

time_window_start	time_window_end	service_time_mins
07:30:00	09:30:00	20
07:30:00	09:30:00	15
08:00:00	10:00:00	15
08:00:00	10:00:00	15
08:30:00	10:30:00	20
08:30:00	10:30:00	25
08:30:00	10:30:00	30
08:30:00	10:30:00	25
09:30:00	11:30:00	20
09:00:00	11:00:00	25
09:00:00	11:00:00	20
09:30:00	11:30:00	15
09:30:00	11:30:00	20
09:30:00	11:30:00	15
10:00:00	12:00:00	15
09:30:00	11:30:00	30
10:00:00	12:00:00	25
10:30:00	12:30:00	20
10:00:00	12:00:00	30
10:30:00	12:30:00	25
11:00:00	13:00:00	20
10:30:00	12:30:00	25
11:00:00	13:00:00	15
11:30:00	13:30:00	15
11:00:00	13:00:00	20
11:30:00	13:30:00	20
12:00:00	14:00:00	15
11:30:00	13:30:00	30
12:00:00	14:00:00	15
12:30:00	14:30:00	15
12:30:00	14:30:00	25
13:00:00	15:00:00	20
13:30:00	15:30:00	15
13:00:00	15:00:00	20
13:30:00	15:30:00	25
14:00:00	16:00:00	20
13:30:00	15:30:00	30
14:00:00	16:00:00	25
14:30:00	16:30:00	30
14:00:00	16:00:00	15
14:30:00	16:30:00	15
14:30:00	16:30:00	15
14:30:00	16:30:00	25
15:00:00	17:00:00	15
15:30:00	17:30:00	15

14:30:00	16:30:00	25
15:00:00	17:00:00	20
15:30:00	17:30:00	15
15:00:00	17:00:00	20
15:30:00	17:30:00	20
16:00:00	18:00:00	15
15:30:00	17:30:00	30
16:00:00	18:00:00	25
16:30:00	18:30:00	30
16:00:00	18:00:00	15
16:30:00	18:30:00	15
16:30:00	18:30:00	15
16:30:00	18:30:00	25
17:00:00	19:00:00	15
17:30:00	19:30:00	20

demand_weight_kg	demand_volume_m3	priority_level
320	4.2	High
110	1.3	Medium
150	2.1	High
95	1.2	Medium
180	2.4	Low
280	3.6	High
420	5.5	High
350	4.6	Medium
180	2.4	Medium
290	3.8	High
210	2.7	Medium
130	1.7	Low
160	2.1	Medium
120	1.5	Low
100	1.3	Medium
380	4.8	High
240	3.1	Medium
170	2.2	Low
420	5.5	High
280	3.6	Medium
190	2.5	Medium
310	4	High
140	1.8	Low
120	1.6	Medium
250	3.2	Medium
180	2.3	Low
130	1.7	Medium
450	5.8	High
160	2.1	Low
140	1.8	Medium
280	3.6	High
220	2.8	Medium
150	1.9	Low
240	3.1	Medium
290	3.8	High
180	2.3	Low
420	5.5	High
310	4	Medium
380	4.9	High
130	1.7	Low
140	1.8	Medium
120	1.6	Medium
330	4.3	High
160	2.1	Low
140	1.8	Medium

demand_weight_kg	demand_volume_m3	priority_level

290	3.8	High
240	3.1	Medium
160	2.1	Low
250	3.2	Medium
180	2.3	Low
140	1.8	Medium
420	5.5	High
310	4	Medium
380	4.9	High
130	1.7	Low
140	1.8	Medium
120	1.6	Medium
330	4.3	High
160	2.1	Low
280	3.6	Medium

distance_from_prev_km	time_from_prev_mins	total_route_distance_km
3.2	12	3.2
1.8	8	5
0.9	5	5.9
2.8	11	2.8
0.7	4	3.5
1.2	6	4.7
2.9	12	2.9
0.8	4	3.7
0.6	3	4.3
3.5	15	3.5
0.5	3	4
0.7	4	4.7
2.6	10	2.6
0.9	5	3.5
0.5	3	4
4.8	22	4.8
1.7	8	6.5
1.2	6	7.7
4.2	19	4.2
1.5	7	5.7
0.8	4	6.5
3.6	16	3.6
1.1	5	4.7
1.4	7	6.1
4.1	18	4.1
1.3	6	5.4
0.7	4	6.1
4.4	20	4.4
1.2	6	5.6
0.9	5	6.5
5.2	24	5.2
0.8	4	6
1.1	6	7.1
4.6	21	4.6
0.4	3	5
0.5	3	5.5
4.3	19	4.3
0.3	2	4.6
0.9	5	5.5
4.8	22	4.8
0.4	2	5.2
0.7	4	5.9
4.5	20	4.5
0.8	4	5.3
0.5	3	5.8

distance_from_prev_km	time_from_prev_mins	total_route_distance_km

4.9	23	4.9
2.3	11	7.2
1.6	8	8.8
5.1	24	5.1
1.8	9	6.9
0.4	2	7.3
4.7	22	4.7
1.2	6	5.9
1.6	8	7.5
4.4	20	4.4
1.5	7	5.9
1	5	6.9
5.8	26	5.8
0.8	4	6.6
1.4	7	8

total_route_duration_mins	actual_delivery_time	delivery_status
32	07:44:00	Completed
55	08:19:00	Completed
75	08:54:00	Completed
26	08:01:00	Completed
45	08:40:00	Completed
66	09:26:00	Completed
42	08:42:00	Completed
71	09:26:00	Completed
94	10:04:00	Completed
40	09:15:00	Completed
63	09:53:00	Completed
82	10:27:00	Completed
30	09:30:00	Completed
50	10:05:00	Completed
68	10:38:00	Completed
52	09:52:00	Completed
85	10:40:00	Completed
111	11:21:00	Completed
49	10:19:00	Completed
81	11:06:00	Completed
105	11:45:00	Completed
41	10:41:00	Completed
66	11:21:00	Completed
88	11:58:00	Completed
38	11:08:00	Completed
69	11:49:00	Completed
88	12:23:00	Completed
50	11:50:00	Completed
81	12:26:00	Completed
101	13:01:00	Completed
49	12:49:00	Completed
73	13:28:00	Completed
94	14:04:00	Completed
41	13:11:00	Completed
69	13:54:00	Completed
92	14:32:00	Completed
49	13:49:00	Completed
76	14:31:00	Completed
106	15:21:00	Completed
37	14:07:00	Completed
64	14:39:00	Completed
83	15:13:00	Completed
45	14:45:00	Completed
74	15:19:00	Completed
92	15:52:00	Completed

48	14:48:00 Completed
84	15:34:00 Completed
107	16:12:00 Completed
44	15:14:00 Completed
78	15:58:00 Completed
95	16:30:00 Completed
52	15:52:00 Completed
83	16:38:00 Completed
116	17:28:00 Completed
35	16:05:00 Completed
67	16:42:00 Completed
87	17:17:00 Completed
51	16:51:00 Completed
80	17:25:00 Completed
102	18:02:00 Completed