

```

1  --Total Trips Per Driver
2  ✓ SELECT
3      d.driver_id,
4      d.full_name,
5      COUNT(ft.trip_key) AS trip_count
6  FROM fact_trips ft
7  JOIN dim_driver d ON ft.driver_key = d.driver_key
8  GROUP BY d.driver_id, d.full_name
9  ORDER BY trip_count DESC;
10 |

```

Data Output Messages Notifications

	driver_id character varying (20) 🔒	full_name character varying (100) 🔒	trip_count bigint 🔒
1	DRIVER-1	Ahmed Metwaly	3

```

1  --total Trips Per Bus
2  ✓ SELECT
3      b.bus_id,
4      COUNT(ft.trip_key) AS trip_count
5  FROM fact_trips ft
6  JOIN dim_bus b ON ft.bus_key = b.bus_key
7  GROUP BY b.bus_id
8  ORDER BY trip_count DESC;
9
10
11
12
13

```

Data Output Messages Notifications

	bus_id character varying (20) 🔒	trip_count bigint 🔒
1	BUS-324	3

```

1  -- Daily Trip Volume
2  SELECT
3      dd.full_date,
4      COUNT(ft.trip_key) AS daily_trips
5  FROM fact_trips ft
6  JOIN dim_date dd ON ft.date_key = dd.date_key
7  GROUP BY dd.full_date
8  ORDER BY dd.full_date;
9
10
11
12
13

```

Data Output Messages Notifications



	full_date date	daily_trips bigint
1	2025-05-29	3

```

1  -- Average Trip Duration Per Route
2  SELECT
3      b.route_id,
4      ROUND(AVG(ft.duration), 2) AS avg_duration
5  FROM fact_trips ft
6  JOIN dim_bus b ON ft.bus_key = b.bus_key
7  GROUP BY b.route_idss
8  ORDER BY avg_duration DESC;
9
10
11

```

Data Output Messages Notifications



	route_id character varying (200)	avg_duration numeric
1	dzCVUSS3MpR4QRQ6vLCn5	2.33

Query Query History

```

1  -- Buses Without Trips
2  ✓ SELECT
3      b.bus_id
4  FROM dim_bus b
5  LEFT JOIN fact_trips ft ON ft.bus_key = b.bus_key
6  WHERE ft.trip_key IS NULL;
7
8
9
10

```

Data Output Messages Notifications



	bus_id character varying (20) 🔒
1	BUS-194
2	BUS-355
3	BUS-206
4	BUS-336
5	BUS-287
6	BUS-347
7	BUS-234

Query Query History

```

1  -- List of Drivers with No Trips
2  ✓ SELECT
3      d.driver_id,
4      d.full_name
5  FROM dim_driver d
6  LEFT JOIN fact_trips ft ON d.driver_key = ft.driver_key
7  WHERE ft.trip_key IS NULL;
8
9
10
11
12
13

```

Data Output Messages Notifications



	driver_id character varying (20) 🔒	full_name character varying (100) 🔒
1	DRIVER-8	Ahmed Essam
2	DRIVER-9	Mohmaed Ahmed

```
1  --Most Active Routes in Last 30 Days
2  ✓ SELECT
3      b.route_id,
4      COUNT(*) AS trip_count
5  FROM fact_trips f
6  JOIN dim_date d ON f.date_key = d.date_key
7  JOIN dim_bus b ON f.bus_key = b.bus_key
8  WHERE d.full_date >= CURRENT_DATE - INTERVAL '30 days'
9  GROUP BY b.route_id
10 ORDER BY trip_count DESC
11 LIMIT 5;
12
```

Data Output Messages Notifications

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	route_id character varying (200) 🔒	trip_count bigint 🔒
1	dzCVUSS3MpR4QRQ6vLCn5	3

```
1  --Driver Performance Overview (Distance, Duration)
2  ✓ SELECT
3      d.full_name,
4      COUNT(*) AS trips,
5      ROUND(SUM(f.distance_covered), 2) AS total_distance,
6      ROUND(AVG(f.duration), 2) AS avg_duration
7  FROM fact_trips f
8  JOIN dim_driver d ON f.driver_key = d.driver_key
9  GROUP BY d.full_name
10 ORDER BY total_distance DESC;
11
12
```

Data Output Messages Notifications

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	full_name character varying (100) 🔒	trips bigint 🔒	total_distance numeric 🔒	avg_duration numeric 🔒
1	Ahmed Metwaly	3	3.00	2.33

Query Query History

```
1  --Top 5 Most Frequently Used Buses
2  SELECT
3      b.bus_id,
4      COUNT(*) AS total_trips
5  FROM fact_trips f
6  JOIN dim_bus b ON f.bus_key = b.bus_key
7  GROUP BY b.bus_id
8  ORDER BY total_trips DESC
9  LIMIT 5;
```

Data Output Messages Notifications

	bus_id character varying (20)	total_trips bigint
1	BUS-324	3

Query Query History

```
1  --Drivers Whose Trips Are All Completed
2  SELECT
3      d.driver_id,
4      d.full_name
5  FROM dim_driver d
6  JOIN fact_trips f ON d.driver_key = f.driver_key
7  GROUP BY d.driver_id, d.full_name
8  HAVING BOOL_AND(f.is_completed);
9
```

Data Output Messages Notifications

	driver_id character varying (20)	full_name character varying (100)
1	DRIVER-1	Ahmed Metwaly