

Ford Motor Company Data Analyst Interview Experience

Round : 1 ctc: 15-18 lpa

Yoe: 3-5



SQL

Q1. Find customers who purchased the same vehicle model more than once in the same year.

Input Table: vehicle_sales

customer_id	model	purchase_date
101	Mustang	2023-03-15
102	Focus	2022-05-20
101	Mustang	2023-08-10
103	F-150	2023-01-11

customer_id	model	purchase_date
101	Focus	2022-04-01
101	Focus	2022-12-25

Q2. Identify vehicles not serviced in the last 12 months.

Input Tables:

1. vehicle_master

vehicle_id	registration_date
V001	2020-01-10
V002	2019-05-15
V003	2021-07-30
V004	2022-10-05

2. service_logs

vehicle_id	service_date
V001	2024-02-20
V002	2023-04-01
V003	2024-08-10

(Assume current date is '2025-05-21')

Q3. Get top 3 dealers per region based on profit (revenue - cost) for Q1 2025.

Input Table: dealer_revenue

dealer_id	region	month	revenue	cost
D01	North	2025-01-15	100000	60000
D02	North	2025-02-10	120000	70000
D03	North	2025-03-12	110000	65000
D04	North	2025-02-25	95000	50000
D05	North	2025-01-20	98000	60000
D01	South	2025-01-10	87000	47000
D02	South	2025-03-05	93000	58000
D03	South	2025-02-18	91000	57000

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Q4. Calculate the month-over-month % growth in service appointments in 2024.

Input Table: service_appointments

appointment_id	service_date	vehicle_id	cost
A001	2024-01-15	V001	200
A002	2024-01-20	V002	180
A003	2024-02-10	V003	220
A004	2024-02-28	V004	190
A005	2024-03-05	V005	250
A006	2024-03-22	V006	210
A007	2024-04-01	V007	230

Q5. Flag older records where customer email and phone are duplicated.

Input Table: customer_contacts

customer_id	email	phone_number	last_updated
1	a@mail.com	1111	2023-01-01
2	a@mail.com	1111	2023-03-01
3	b@mail.com	2222	2022-12-15
4	b@mail.com	2222	2023-02-10
5	c@mail.com	3333	2023-05-01

Q6. Find customers who bought both Ford Mustang and Ford Figo.

Input Table: sales_data

customer_id	model	purchase_date
1	Ford Mustang	2023-01-10
2	Ford Figo	2023-02-11
1	Ford Figo	2023-03-12
3	Ford Mustang	2023-04-01
4	Ford Figo	2023-04-15
3	Ford Figo	2023-05-20

Q7. Get the latest service record for each vehicle along with cost.

Input Table: service_records

vehicle_id	service_date	service_cost
V001	2023-01-10	250
V001	2023-03-15	300
V002	2023-02-05	200
V003	2023-01-20	180
V002	2023-04-12	220

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