

Task - 1:

1. Given the table: orders

order_id	user_id	status	created_at

2. Suggest appropriate indexes
3. Explain why you chose them

Indexes:

- To choose an index first we need to think what will the most searched/queried thing on our table.
 - The most queried property on our table could be finding order for particular user.
 - Fetch all orders for particular user_id
 - Might be the case where user asks for particular date or fixed timebound

Indexes Suggestions:

- **Primary Key Index on (order_id)**
 - Fast lookup by order ID.
- **Composite Index on (user_id , created_at):**
 - User's order history
 - Recent orders
 - Sorting by date