

#### ### Select

1. Write a query to select all columns from the `products` table.
2. Write a query to select the `product\_name` and `list\_price` from the `products` table.
3. Write a query to select the distinct `category\_id` from the `products` table.
4. Write a query to select the `first\_name` and `last\_name` of customers from the `customers` table.

#### ### Select Top

5. Write a query to select the top 5 products with the highest `list\_price` from the `products` table.

#### ### Filtering using WHERE conditions

6. Write a query to select all products with a `list\_price` greater than 100.
7. Write a query to select all customers who live in the city 'New York'.
8. Write a query to select all orders with an `order\_status` of 1.

#### ### Ordering

9. Write a query to select all products and order them by `list\_price` in descending order.
10. Write a query to select all customers and order them by `last\_name` and then `first\_name`.

#### ### Grouping

11. Write a query to find the total `list\_price` of all products grouped by `category\_id`.
12. Write a query to find the total number of orders grouped by `customer\_id`.

#### ### Having

13. Write a query to find the total `list\_price` of all products grouped by `category\_id` and show only those categories with a total `list\_price` greater than 500.

#### ### Insertions

14. Insert a new brand into the `brands` table with the name 'BrandX'.
15. Insert a new category into the `categories` table with the name 'Electronics'.
16. Insert a new customer into the `customers` table with the following details: first name 'Alice', last name 'Johnson', phone '987-654-3210', email

'alice.johnson@example.com', street '456 Elm St', city 'Othertown', state 'TX', zip code '54321'.

17. Insert a new store into the `stores` table with the following details: store name 'Tech Store', phone '555-123-4567', email 'contact@techstore.com', street '789 Tech Ave', city 'Techville', state 'CA', zip code '67890'.

18. Insert a new staff member into the `staffs` table with the following details: first name 'Bob', last name 'Smith', email 'bob.smith@example.com', phone '555-987-6543', active status 1, store\_id 1, manager\_id NULL.

### ### Updates

19. Update the `list\_price` of the product with `product\_id` 1 to 119.99.

20. Update the `email` of the customer with `customer\_id` 2 to 'new.email@example.com'.

21. Update the `phone` number of the store with `store\_id` 3 to '123-456-7890'.

22. Update the `category\_name` of the category with `category\_id` 2 to 'Home Appliances'.

23. Update the `active` status of all staff members in store 1 to 0.

### ### Deletions

24. Delete the brand with `brand\_id` 2 from the `brands` table.

25. Delete the category with `category\_id` 3 from the `categories` table.

26. Delete the customer with `customer\_id` 4 from the `customers` table.

27. Delete the store with `store\_id` 5 from the `stores` table.

28. Delete the staff member with `staff\_id` 6 from the `staffs` table.

### ### Additional Complex DML Questions

29. Insert a new order into the `orders` table with the following details: customer\_id 1, order\_status 1, order\_date '2024-07-01', required\_date '2024-07-10', shipped\_date NULL, store\_id 1, staff\_id 1.

30. Update the `shipped\_date` of the order with `order\_id` 1 to '2024-07-05'.

31. Delete all orders that have an `order\_status` of 3 (Rejected).

32. Insert multiple products into the `products` table in a single query.

33. Update the `quantity` of all `stocks` for the store with `store\_id` 1 to 0.