

# Mock Assignment SOQL

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WHERE clause :

where clause filters records based on conditions when you only need specific records matching criteria.

Q-1) Retrieve all Accounts where Industry is 'Finance'

→ `SELECT Id, Name from Account where Industry = 'Finance'`

Q-2) Fetch Contacts where FirstName = 'John' & LastName = 'Doe'

→ `SELECT Id, FirstName, LastName from Contact WHERE FirstName = 'John' AND LastName = 'Doe'`

Q-3) Get all Opportunity where Amount is greater than 30000

→ `SELECT Id, Amount from Opportunity WHERE Amount > 30000`

Q-4) Retrieve cases whose status is not 'closed'

→ `SELECT Id, CaseNumber, Status from Case WHERE Status != 'closed'`

Q-5) Fetch Leads where Company starts with 'Tech'

→ `SELECT Id, Name, Company from Lead WHERE Company LIKE 'Tech %'`

Q-6) Find Opportunities whose closed Date is in the last 30 days.

→ `SELECT Id, Name, closeDate from Opportunity WHERE closeDate = LAST_N_Days:30`

- Q.7) Retrieve all product whose price is either equal to 1000 or greater than 1000.  
 SELECT Id, Name, Pricebook, Entry, UnitPrice  
 FROM Product WHERE Pricebook, Entry, UnitPrice >= 1000
- Q.8) Fetch all user whose last login date is greater than yesterday.  
 SELECT Id, Name, LastLoginDate FROM User  
 WHERE LastLoginDate > Yesterday
- Q.9) Get all contacts where Email is not null.  
 SELECT Id, Name, Email FROM Contact  
 WHERE Email != Null
- Q.10) Retrieve opportunity whose probability is between 30 and 70.  
 SELECT Id, Name, Probability FROM Opportunity  
 WHERE Probability >= 30 AND Probability <= 70
- IN and NOT IN :- (IN :- checks if a field's value is in a list)  
NOT IN :- Excludes values from a list  
 when filtering records based on multiple possible values.
- Q.11) Accounts whose Industry is either 'Banking', 'Retail', or 'Education'.  
 SELECT Id, Name, Industry FROM Account  
 WHERE Industry IN ('Banking', 'Retail', 'Education')

(Q-12) Retrieve Leads where LeadSource is not 'web' or 'retailroy'

→ SELECT Id, Name, LeadSource FROM Lead  
WHERE LeadSource NOT IN ('web', 'Retailroy')

(Q-13) Fetch opportunity whose StageName is in ('prospecting', 'Negotiation', 'closed-won')

→ SELECT Id, StageName FROM Opportunity  
WHERE StageName IN ('prospecting', 'negotiating',  
'closed won')

(Q-14) Get Contact where LastName is in ('Smith', 'Johnson', 'Brown')

→ SELECT Id, LastName FROM Contact  
WHERE LastName IN ('Smith', 'Johnson', 'Brown')

(Q-15) Retrive case where priority is not High or Critical

→ SELECT Id, priority FROM Case  
WHERE priority NOT IN ('High', 'Critical')

(Q-16) Fetch Account where Billing State is NY, CA & TX

→ SELECT Id, BillingState FROM Account  
WHERE BillingState IN ('NY', 'CA', 'TX')

(Q-17) Find User who profile id is not xyz or abc

→ SELECT Id, profileId FROM User  
WHERE profileId NOT IN ('xyz', 'abc')

(Q-18) Retrive product's whose Category is Electronics

→ SELECT Id, Category FROM Product  
WHERE Category IN ('Electronics', 'Furniture')

Software

→ SELECT Id, Category FROM Product  
WHERE Category IN ('Electronics', 'Furniture',  
'Software')

(Q.1) Fetch opportunity whose ownerId is in a list of specific user id  
 SELECT Id, ownerId FROM Opportunity WHERE ownerId IN ('1231', '1234').

(Q.2) Get campaign whose status is not completed.  
 SELECT Id, Status FROM Campaign WHERE Status != 'Completed'.

### Limit & Order By:

limit is restricts number of records returned when you need a specific number of records (e.g. latest 5 record).

Order By is sorts records in Asc(Ascending) or Desc order.

when fetching latest or top records.

(Q.3) Retrive top 10 Accounts sorted by Created Date in Desc order.

SELECT Id, CreateDate; DESC LIMIT 10.

(Q.4) Fetch the 5 most recent opportunities where stageName = 'close won'.

SELECT Id, StageName FROM Opportunity WHERE StageName = 'close won' ORDER BY DESC LIMIT 5.

(Q.5) Get the latest case whose priority = High

SELECT Id, priority FROM Case

WHERE priority = 'High' ORDER BY Desc.

(Q.6) Retrive 10 oldest contacts based on last modified date.

SELECT Id, LastModifiedDate FROM Contact ORDER BY LastModifiedDate ASC LIMIT 10.

- (Q-25) Fetch the highest Amount from opportunity using ORDER BY  
 $\rightarrow \text{SELECT Id, Amount FROM opportunity ORDER BY amount DESC LIMIT 1}$
- (Q-26) Get the 3 most expensive product from the product object.  
 $\rightarrow \text{SELECT Id, pricebookUnitPrice FROM products ORDER BY pricebookUnitPrice DESC LIMIT 3}$
- (Q-27) Retrive so account sorted by Annual Revenue in descending order.  
 $\rightarrow \text{SELECT Id, AnnualRevenue FROM Account ORDER BY AnnualRevenue DESC LIMIT 5}$
- (Q-28) Fetch the first 20 contacts whose Email ends with @gmail.com  
 $\rightarrow \text{SELECT Id, Email FROM contact WHERE Email like '%@gmail.com' limit 20}$
- (Q-29) Retrive the last 5 users who logged in  
 $\rightarrow \text{SELECT Id, LastLoginDate FROM users WHERE LastLoginDate != null ORDER BY DESC LIMIT 5}$
- (Q-30) Fetch 10 latest lead whose status is open  
 $\rightarrow \text{SELECT Id, Status FROM Lead ORDER BY CreatedDate DESC LIMIT 10}$   
 $\text{WHERE Status like 'open' limit 10}$
- (Q-31) LIKE and logical operators when searching for records that contain a keyword or begin with a keyword  
AND - Used Both cond's must be true  
OR - At least one cond. must be true  
NOT - Excludes certain records

Integration API

Suppose Sof salesforce Database API

Cost - 128

~~State~~ → ~~it~~ external Id → data is only  
Insert → ~~it~~ Update → ~~it~~ ~~it~~ → ~~it~~  
~~the~~ ~~Integration~~ task

— used when filtering certain records.

(Q31) Fetch all accounts where name contains 'Tech'

→ `SELECT Id, Name FROM Account WHERE Name LIKE '%Tech'`

(Q32) Retrives contacts whose Email ends with @yahoo.com

→ `SELECT Id, Email FROM contact`

where Email like '%@yahoo.com'

(Q33) Get leads whose company start with 'A'

→ `SELECT Id, Company FROM lead`

where Company like 'A%'

(Q34) Fetch opportunities where stageName is proposal Amount > \$0K

→ `SELECT Id, stageName, Amount, From opportunity`

where stageName = 'proposal'  
AND Amount > \$0.00

(Q35) Retrives case where is new priority is critical  
SELECT Id, Status, priority, From case  
where Status = 'new' AND priority = 'critical'

- Q-34) Fetch Users where Email contains 'Salesforce'  
 → SELECT Id, Email FROM Users  
 WHERE Email LIKE '%salesforce%'
- Q-35) Get Accounts where Industry is 'Banking'?  
 → AnnualRevenue > 1000000  
 → SELECT Id, Industry, AnnualRevenue FROM Accounts  
 WHERE Industry = 'Banking' AND AnnualRevenue > 1000000
- Q-36) Get new opportunities where amount is less than 20000.  
 → SELECT Id, Amount FROM Opportunity  
 WHERE Amount < 20000 AND Amount > 10000
- Q-37) Fetch Leads where city is New York or Los Angeles.  
 → SELECT Id, City FROM Lead, Contact IN (NY, LA)  
 WHERE City = 'New York' OR City = 'Los Angeles'
- Q-38) Get opportunities whose stagename is not closed lost.  
 → SELECT Id, StageName FROM Opportunity  
 WHERE StageName != 'closed lost'
- A ↗ child to parent queries :-**  
 when extracting related parent data from a child record (having relationship)
- Q-39) Retrieve Contacts with their related Account Name  
 → SELECT Id, Name, AccountName FROM Contact
- Q-40) Get opportunity with their Account Name  
 → SELECT Id, Name, AccountName FROM Opportunity

Q-43) Fetch cases with their related contact  
name & Email  
SELECT Id, Name, Contact.Name, Contact.Email  
From Case

Q-44) Retrieve leads with owners name  
SELECT Id, Owner.Name From Lead

Q-45) Fetch tasks with their related Contact name  
& what id (Opp. Name)  
SELECT Id, Subject, Who.Name, What.Name  
From Task

Q-46) Get orders with their related Account  
Name & Billing address.

SELECT Id, Account.Name, BillingStreet,  
BillingCity From Order

Q-47) Retrieve opportunities with their owners  
Email & profile name  
SELECT Id, Owner.Email, Owner.Profile.Name  
From Opportunity

Q-48) Fetch campaign members with their related  
Campaign name & lead Name  
SELECT Id, Campaign.Name, Lead.Name  
From Campaign Member

Q-49) Get users with their role name & profile  
name & industry  
SELECT Id, Role.Name, Profile.Name From User

Q-50) Retrieve cases with their related Account Industry  
SELECT Id, Account.Industry From Case