

# CSCI\_4400\_NOTES\_1\_31\_2019.md

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## Starting Access work

- Databases
- Sources
- Files
- into SQL
  - Structured Query Language
- Tools for retrieving data

## SQL

- SELECT
- FROM
- WHERE

### Basic Pets SQL Query

```
SELECT Pets.Name, Pets.[Date of Birth]
FROM Pets
WHERE (((Pets.Kind)="cat"));
```

There are reserved words in SQL ie **SELECT**, **FROM**, and **WHERE**

\* means all columns

### Query for all pets

```
SELECT *
FROM Pets;
```

### Query that filters just name and kind of pet

```
SELECT name, kind
FROM Pets;
```

### Query: Get all dogs

```
SELECT *
FROM Pets
WHERE kind='dog';
```

gives back all pet entries with dog

Query: Cats or dogs

```
SELECT *
FROM Pets
WHERE kind='dog' OR
      kind='cat';
```

Query: Find Khan

```
SELECT *
FROM Pets
WHERE name='khan';
```

Query: Pass 2 Number 1

The customer number and company name for all customers that are the owner or sales manager of their business.

```
SELECT CustomerID, CompanyName
FROM Customers
WHERE ContactTitle="Owner" OR ContactTitle="Sales Manager"
```

Query: Pass 2 Number 2

Query2 The product name, category name, and units in stock for all products that cost at least 20.00 and have a reorder level of 0.

```
SELECT Products.ProductName, Categories.CategoryName, Products.UnitsInStock
FROM Products, Categories
WHERE Products.UnitsInStock >= 20 AND Products.ReorderLevel=0 AND
      Categories.CategoryID=Products.CategoryID;
```

Query: Pass 2 Number 3

Query3 The names of all customers who ordered a product supplied by Leka Trading or Exotic Liquids.

```
SELECT Customers.CompanyName
FROM Customers, Suppliers
```

```
WHERE (((Suppliers.CompanyName)="Leka Trading" Or (Suppliers.CompanyName)="Exotic Liquids"));
```

\*Incomplete

## Aggregation Function

Give me the count of all records

```
SELECT count(*)  
FROM ORDERS;
```