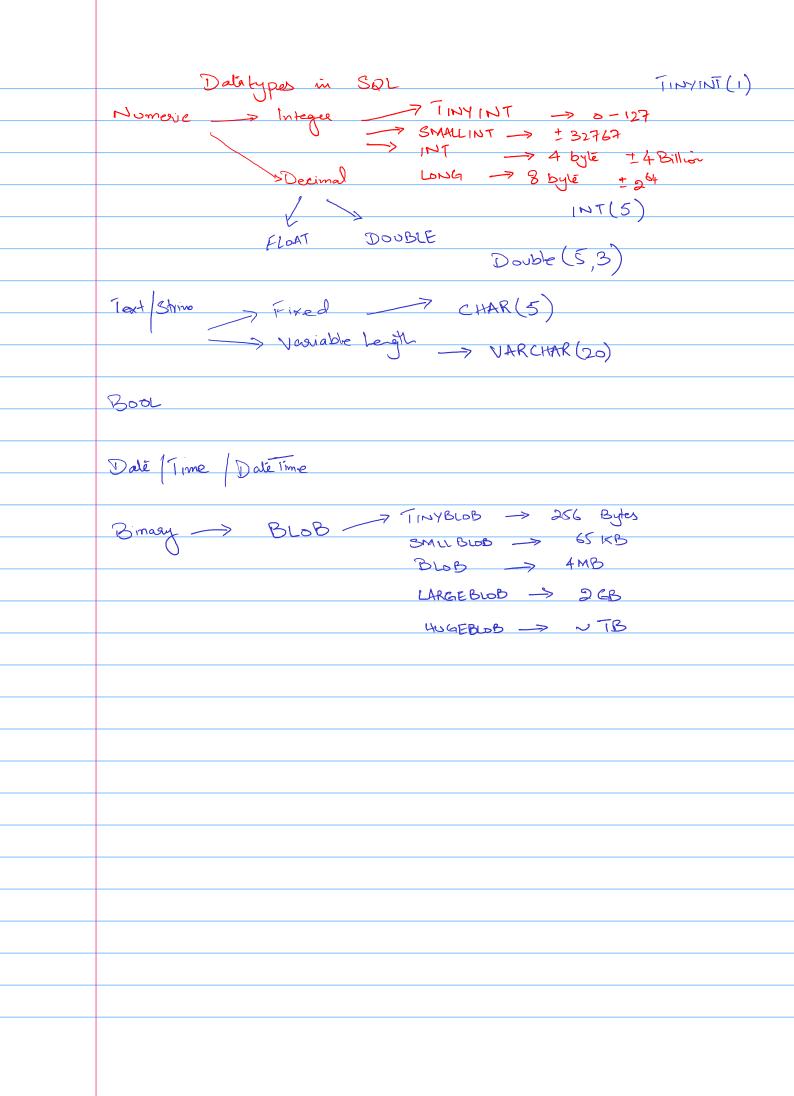
Structured Query Language Sequel / es greve et Microsoft-NCL IBM Sm Microsystems Oracle Sun Solaris DB2 Ovacle - Open Office - Java MS SAL Server -> Mysal MySQL Workberch Modialb Persona Apache, MySQL PHP Linux [L] AMP Stack Mac FMAX SQL DDi -> Data Defination Language

Plays with the structure of Dalá > 0 se gord c -> Alter DML > Data Manuplation Language plays with data in the database Back of & Recovery 17 Toursactions Charlepoints DCL -> Dala Control Language
plays with the dalabase managem



```
-- which databases are available
show databases;
-- create a new database
create database dbd11;
-- how to delete a database
drop database dbd11;
-- all future commands hould be executed against dbd11
use dbd11;
-- whcih tabels are available
show tables;
SHOW DATABaSeS;
                         -- sql is not case sensitive
-- add a new table in the db
Create table Student
    sid INT(5),
  sName VARCHAR(20),
  gpa FLOAT(3,2),
  sex CHAR(1)
);
-- whats is the structure of table
describe Student;
-- discard the table and the data in the table
DROP table Student;
CREATE Table Student
    sid INT(5) NOT NULL UNIQUE,
  fName varchar(10),
  IName varchar(10),
  dob DATE,
  phone CHAR(11),
  gpa float(3,2) NOT NULL,
  Sex CHAR(1) DEFAULT 'M',
  PRIMARY KEY(SID)
);
```

Adding Data in the Table
Insert into Student VALUES(1, 'Ali', 'Ahmad', NULL, '12345678901',
3.33, NULL);
Show the data in the table
Select * from Student;
Add data in Sepcific Columns and different ordser
Insert Into Student (SID, lName, fName, Phone, GPA, DOB) VALUES
(2, 'Saleem', 'Farooq', '98765432101', 3.67, '2000-07-18');
Adding multiple data
Insert Into Student (SID, lName, fName, Phone, GPA, DOB, Sex) VALUES
(3, 'Ali', 'Fatima', '98765432101', 3.67, '2000-07-18', 'F'),
(4, 'Hakeem', 'Abdul', '96385274109', 3.0, '2001-01-18', 'M'),
(5, 'Shakir', 'Parveen', '96385274109', 3.0, '2001-01-18', 'F');
7th Edition
Structure pg 164 Assign 1 part 1  Data > pg 162 (Submission
Data > Pag 162 Submission
HdP -> pg 181 Wednesday 26th Apr
10:00 AM
select * from student where sex = 'F' AND sid < 4;

```
SELECT * FROM Customers;
SELECT * FROM Customers where COUNTRY = 'Germany';
SELECT * FROM Customers where COUNTRY = 'Germany' OR Country = 'France';
SELECT * FROM Products where Price = 20;
SELECT * FROM Orders where OrderDate = '1996-07-08';
SELECT * FROM Products where Price <= 18;
SELECT * FROM Products where Price >= 18 and Price <= 22;
SELECT * FROM Customers where Country = 'France' AND City = 'Paris';
SELECT * FROM Customers where Country != 'France';
SELECT * FROM Customers where Country <> 'Germany';
select * from Products where (price > 15 and price < 22)
            or (supplierid <= 10 and supplierid > 5)
select CustomerID, CustomerName, City, Country from Customers;
select CustomerID, CustomerName, City, Country from Customers where Country = 'Germany
select Country, CustomerID, CustomerName from Customers where
            Country = 'France' and City = 'Paris';
select City, Country from Customers;
select distinct City, Country from Customers;
select CustomerID, ContactName as President, City, Country from Customers
Select * from Customers where Country > 'Sweden'
Select * from Customers where Country = 'France'
            OR Country = 'Germany' OR country = 'Sweden';
Select * from Customers where Country IN ('France', 'Germany', 'Sweden');
```

Select * from Products where price >= 10 AND price <= 15
·
Select * from Products where price BETWEEN 10 AND 15;
Select * from Products where price < 10 OR price > 15;
Select * from Products where price NOT BETWEEN 10 AND 15;
Wildcards
% any 0 or more length string
_ exactly 1 character
Show customers whose name start with L
Select * from Customers where ContactName LIKE 'L%';
Show customers whose 2nd name start with L
Select * from Customers where ContactName LIKE '% L%';
Name end with n
Select * from Customers where ContactName LIKE '%n';
2nd laster letter is o
Select * from Customers where ContactName LIKE '%o_';
name contains 2 n
Select * from Customers where ContactName LIKE '%n%n%';
Select * from Customers where ContactName NOT LIKE '%n%n%';

Select * from Customers where Country IS NULL	
Select * from Customers where Country IS NOT NULL	
·	SSN
Find the ids of the Employees whose name start with 'J'	
Tima die las et die Empleyees whose hame state war y	12345678
Select ssn from Employee where Fname LIKE 'J%';	98765432
μ.,	45345345
Find the ids of the Employees who have a male Dependent	88866555
	ESSN
Select ESSN from Dependent where Sex = 'M';	
	33344555
Find the Ide of the Employees where name start with I	98765432
Find the Ids of the Employees whose name start with J or thay have a male dependent	12345678
от оталу того от тало оторота от тало оторота от тало	
Select ssn from Employee where Fname LIKE 'J%'	CCN
UNION	SSN
Select ESSN from Dependent where Sex = 'M';	123456789
	987654321
	453453453
Union Compatibility	888665555
1. No of Columns/Attributes in the sets should be same	333445555
2. Corrosponding pairs of colums/attributes should have sar	

Find the Ids of the Employees whose name start with J
and thay also have a male dependent
Select ssn from Employee where Fname LIKE 'J%'
INTERSECT
Select ESSN from Dependent where Sex = 'M';
MY SQL
Select ssn from Employee where Fname LIKE 'J%'
AND SSN IN (Select ESSN from Dependent where Sex = 'M');
Find the Ids of the Employees whose name start with J
but thay do not have a male dependent
Select ssn from Employee where Fname LIKE 'J%'
EXCEPT
Select ESSN from Dependent where Sex = 'M';
Select LSSN ITOHT Dependent where Sex = 101,
MY SQL
Select ssn from Employee where Fname LIKE 'J%'
AND SSN NOT IN (Select ESSN from Dependent where Sex = 'M');

A :  $\{a,b,c\}$ B =  $\{1,2,3\}$ Choss Product

A × B =  $\{(a,1),(a,2),(a,3)\}$ (b,1), (b,2), (b,3)

(c,1), (c,2), (c,3) \{(c,3)}\{(c,3)}\{(c,3)}\{(c,1)}

Find the names of female employees and details of their dependents

Select frame lame 85n from Employees where sex: 'F'.

## FEMALE\_EMPS

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno	
Alicia	J	Zelaya	999887777	1968-07-19	3321 Castle, Spring, TX	F	25000	987654321	4	]
Jennife	S	Wallace	987654321	1941-06-20	291Berry, Bellaire, TX	F	43000	888665555	4	
Joyce	Α	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	25000	333445555	5	1

## **EMPNAMES**

Fname	Lname	Ssn
Alicia	Zelaya	999887777
Jennifer	Wallace	987654321
Joyce	English	453453453

## DEPENDENT

Essn	Dependent_name	Sex	Bdate	Relationship
333445555	Alice	F	1986-04-05	Daughter
333445555	Theodore	М	1983-10-25	Son
333445555	Joy	F	1958-05-03	Spouse
987654321	Abner	М	1942-02-28	Spouse
123456789	Michael	М	1988-01-04	Son
123456789	Alice	F	1988-12-30	Daughter
123456789	Elizabeth	F	1967-05-05	Spouse

## EMP\_DEPENDENTS

Fname	Lname	Ssn	Essn	Dependent_name	Sex	Bdate	
Alicia	Zelaya	999887777	333445555	Alice	F	1986-04-05	
Alicia	Zelaya	999887777	333445555	Theodore	М	1983-10-25	
Alicia	Zelaya	999887777	333445555	Joy	F	1958-05-03	
Alicia	Zelaya	999887777	987654321	Abner	М	1942-02-28	
Alicia	Zelaya	999887777	123456789	Michael	М	1988-01-04	
Alicia	Zelaya	999887777	123456789	Alice	F	1988-12-30	
Alicia	Zelaya	999887777	123456789	Elizabeth	F	1967-05-05	
Jennifer	Wallace	987654321	333445555	Alice	F	1986-04-05	
Jennifer	Wallace	987654321	333445555	Theodore	М	1983-10-25	
Jennifer	Wallace	987654321	333445555	Joy	F	1958-05-03	
Jennifer	Wallace	987654321	987654321	Abner	М	1942-02-28	
Jennifer	Wallace	987654321	123456789	Michael	М	1988-01-04	
Jennifer	Wallace	987654321	123456789	Alice	F	1988-12-30	
Jennifer	Wallace	987654321	123456789	Elizabeth	F	1967-05-05	
Joyce	English	453453453	333445555	Alice	F	1986-04-05	
Joyce	English	453453453	333445555	Theodore	М	1983-10-25	
Joyce	English	453453453	333445555	Joy	F	1958-05-03	
Joyce	English	453453453	987654321	Abner	М	1942-02-28	
Joyce	English	453453453	123456789	Michael	М	1988-01-04	
Joyce	English	453453453	123456789	Alice	F	1988-12-30	
Joyce	English	453453453	123456789	Elizabeth	F	1967-05-05	

	Multi Table Select
	Columns
	Multi Table Select  Columns  Select E. Frame, E. Iname, E. SSN, D. X from  tables
	Employee E, Dependent D where
	E. Sex = F and E. SSN = D. ESSN ; Condition on data Condition for commection
	, the state of the
Śo	
	Select E. Frame, E. Iname, E. 85n, D. X From
	Employee E JOIN Dependent D
	on ESSN = D. ESSN
	where
	Employee E JOIN Dependent D on E-SSN = D. FSSN where E. Sex = 'F';
	25 5 2023
	Of you use moltifable select in
	SQ' in any Assignment, Quiz, Final or Jab after above mentioned date you will be awarded o (zero)
	Lab allie above mentioned date
	you will be awarded O (zero)
	marks

1. Show the names of the managers and the names of their departments Solale D. drame, E. frame, E. brame Department D 301N Employee E on D. mgs.sen - E. Ssn 2. Show details of departments located in Howston Dept Join Deptlocations D. DNumber. DI. DNumber DL. Dloc:

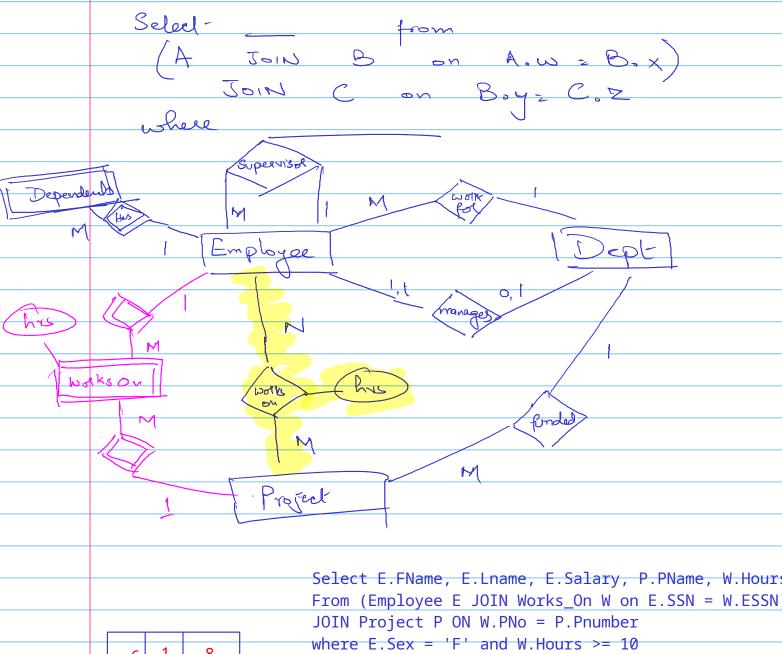
3. Show names of depts and name & salaries of Housen

male employees working in there depts.

D. DName, E. France, E. Salary Department D Join Emp E D. Dnumber: EDNo 4. Show the names of the employees along with names of their supervisors. 5. Show the names & salaries of female employees along with the names of the projects where they have spent more than 10 trus 6. Show names of dependents whose parents have booken on some project beated in Howston or Stafford. 7. Show the names of the projects managed by

The department where James Bog is

— The manager



6	1	8
7	5	3
2	9	4

Select E.FName, E.Lname, E.Salary, P.PName, W.Hours From (Employee E JOIN Works\_On W on E.SSN = W.ESSN) where E.Sex = 'F' and W.Hours >= 10 and P.Plocation = 'Sugarland';

