SQL (Structured Query Language) in one

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		Ostobogo Monigulation ————	
		Patabase Manipulation	
CREATE DATABASE database_name	Create a database Delete a database		CREATE DATABASE My_First_Database
DROP DATABASE database_name	Defete a data		DROP DATABASE My_First_Database
	G 11	Table Manipulation	CDE ATTE TA DI E D
CREATE TABLE "table_name" ("column_1" "data_type_for_column_1",	Create a table in a database.		CREATE TABLE Person (LastName varchar, FirstName varchar,
"column_2" "data_type_for_column_2",)	Data Types		
	Data Type	_	Address varchar, Age int)
	integer(size) int(size)	Hold integers only. The maximum number of digits are specified in	Age int)
	smallint(size)	parenthesis.	
	tinyint(size)		
	decimal(size,		
	numeric(size,	maximum number of digits are specified in "size". The maximum	
		number of digits to the right of the	
		decimal is specified in "d".	
	char(size)	Holds a fixed length string (can	
		contain letters, numbers, and special characters). The fixed size is specified	
		in parenthesis.	
	varchar(size)	Holds a variable length string (can contain letters, numbers, and special	
		characters). The maximum size is	
		specified in parenthesis.	
	date(yyyymmdd) Holds a date		
ALTER TABLE table_name ADD column_name datatype		s in an existing table.	ALTER TABLE Person ADD Sex char(6
ALTER TABLE table_name DROP column_name datatype DROP TABLE table_name	Delete columns in an existing table. Delete a table.		ALTER TABLE Person DROP Sex chard DROP TABLE Person
DROI TABLE table_name	Defete a table		DROI INDLETCISOII
CREATE INDEX index_name	Crasta a sim	Index Manipulation	CREATE INDEX PersonIndex
ON table_name (column_name_1, column_name_2,)	Create a simple index.		ON Person (LastName, FirstName)
CREATE UNIQUE INDEX index_name	Create a unique index.		CREATE UNIQUE INDEX PersonIndex
ON table_name (column_name_1, column_name_2,)			ON Person (LastName DESC)
DROP INDEX table_name.index_name	Delete a index.		DROP INDEX Person.PersonIndex
		Data Manipulation	
INSERT INTO table_name VALUES (value_1, value_2,)	Insert new rows into a table.		INSERT INTO Persons VALUES('Hussein', 'Saddam', 'White Ho
INSERT INTO table_name (column1, column2,)			INSERT INTO Persons (LastName, First
VALUES (value_1, value_2,)			VALUES('Hussein', 'Saddam', 'White Ho
UPDATE table_name	Update one of	or several columns in rows.	UPDATE Person
SET column_name_1 = new_value_1, column_name_2 = new_value_2			SET Address = 'ups' WHERE LastName = 'Hussein'
WHERE column_name = some_value			
DELETE FROM table_name WHERE column_name = some_value	Delete rows in a table.		DELETE FROM Person WHERE LastN
TRUNCATE TABLE table_name	Deletes the data inside the table.		TRUNCATE TABLE Person
		Select	
SELECT column_name(s) FROM table_name	Select data fr		SELECT LastName, FirstName FROM
SELECT * FROM table_name	Select data from a table. Select all data from a table.		SELECT * FROM Persons
SELECT DISTINCT column_name(s) FROM table_name	Select only distinct (different) data from a table.		SELECT DISTINCT LastName, FirstNa
SELECT column_name(s) FROM table_name	Select only certain data from a table. Operators		SELECT * FROM Persons WHERE sex
WHERE column operator value AND column operator value			SELECT * FROM Persons WHERE Yes
OR column operator value	Operator	Description SELECT * FROM Persons WHERE FirstName='Saddar	
AND (OR)	=	Equal	AND LastName='Hussein'
•••	<>	Not equal	SELECT * FROM Persons
	>	Greater than	

you want to retu	Greater than or equal Less than or equal Between an inclusive range Search for a pattern. A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern. erator may be used if you know the exact value arn for at least one of the columns. from a table with sort the rows.	OR LastName='Hussein' SELECT * FROM Persons WHERE (FirstName='Tove' OR FirstName='Steph AND LastName='Svendson' SELECT * FROM Persons WHERE First
BETWEEN LIKE The IN operation you want to return the select data to select data	Between an inclusive range Search for a pattern. A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern. erator may be used if you know the exact value arn for at least one of the columns.	(FirstName='Tove' OR FirstName='Steph AND LastName='Svendson' SELECT * FROM Persons WHERE First SELECT * FROM Persons WHERE First SELECT * FROM Persons WHERE First SELECT * FROM Persons
The IN operation you want to return the Select data	Search for a pattern. A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern. erator may be used if you know the exact value arn for at least one of the columns.	SELECT * FROM Persons WHERE First SELECT * FROM Persons WHERE First SELECT * FROM Persons WHERE First SELECT * FROM Persons
The IN operation you want to return the Select data	A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern. erator may be used if you know the exact value arn for at least one of the columns.	SELECT * FROM Persons WHERE First SELECT * FROM Persons WHERE First SELECT * FROM Persons
you want to retu Select data	erator may be used if you know the exact value arn for at least one of the columns.	
	from a table with sort the rows.	
Note:		SELECT * FROM Persons ORDER BY LastName
		SELECT FirstName, LastName FROM P
 ASC (ascend) is a alphabetical and numerical or (optional) DESC (descend) is a reverse alphabetical and numerical or and are 		ORDER BY LastName DESC SELECT Company, OrderNumber FROM ORDER BY Company DESC, OrderNum
Order		
functions (like SUM) return the aggregate of all column values every time they are called, and without the GROUP BY function it was impossible to find the sum for each individual group of column values.		SELECT Company, SUM(Amount) FROM Sales GROUP BY Company
Function		
	n) Returns the average value of a	
COUNT(col		
MAX(colum		
`	column	
`	,	
keyword could SUM), and with	not be used against aggregate functions (like hout HAVING it would be impossible to test	SELECT Company, SUM(Amount) FROM Sales GROUP BY Company
for result condit		HAVING SUM(Amount)>10000
Column nome o		SELECT Lost Name AS Family First Nam
		SELECT LastName AS Family, FirstNam FROM Persons SELECT LastName, FirstName
		FROM Persons AS Employees
	Join	
The INNER JOIN returns all rows from both tables where there is a match. If there are rows in first table that do not have matches in second table, those rows will not be listed.		SELECT Employees.Name, Orders.Produ FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.En
The LEFT JOIN returns all the rows from the first table, even if there are no matches in the second table. If there are rows in first table that do not have matches in second table, those rows also will be listed.		SELECT Employees.Name, Orders.Produ FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.En
The RIGHT JOIN returns all the rows from the second table, even if there are no matches in the first table. If there had been any rows in second table that did not have matches in first table, those rows also would have been listed.		SELECT Employees.Name, Orders.Produ FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.En
	IINIONI	
		SELECT E. Nama EDOM Employees, No.
Select all different values from SQL_Statement_1 and SQL_Statement_2		SELECT E_Name FROM Employees_No UNION SELECT E_Name FROM Employees_US
Select all values from SQL_Statement_1 and SQL_Statement_2		SELECT E_Name FROM Employees_No UNION SELECT E_Name FROM Employees_US
	SELECT INTO/IN	SEEECT E_Ivame TROW Employees_ev
Select data		SELECT * INTO Persons_backup FROM
	Function it was group of column Function AVG(column COUNT(column MIN(column HAVING keyword could SUM), and with for result condite Column name at Table name alia The INNE there is a match matches in secon The LEFT even if there are rows in first tathose rows also The RIG table, even if the been any rows in table, those rows Select all SQL_Statement.	GROUP BY was added to SQL because aggregate functions (like SUM) return the aggregate of all column values every time they are called, and without the GROUP BY function it was impossible to find the sum for each individual group of column values. Some aggregate functions

SELECT column_name(s) IN external_database_name FROM source_table_name WHERE query	Select data from table(S) and insert it in another database.	SELECT Persons.* INTO Persons IN 'Ba Persons WHERE City='Sandnes'				
CREATE VIEW						
CREATE VIEW view_name AS SELECT column_name(s) FROM table_name WHERE condition	Create a virtual table based on the result-set of a SELECT statement.	CREATE VIEW [Current Product List] A SELECT ProductID, ProductName FROM Products WHERE Discontinued=No				
OTHER						
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