2 (2 2 11 11 11 12 11 11 11 11 11 11 11 11 11	one page	
Manipulation (CREATE, DROP INI	lation (CREATE, DROP DATABASE), Table Manipulation (CREATE, ALTER, DROP TABLE, Data Types), Index DEX), Data Manipulation (INSERT, UPDATE, DELETE, TRUNCATE TABLE), Select (SELECT, FROM, WHERE, G, Operators, Aggregate functions), Alias, Join, UNION, SELECT INTO/IN, CREATE VIEW.	
Database Manipulation CREATE DATABASE	Create a database	CREATE DATABASE My First Database
database_name DROP DATABASE database_name Table Manipulation		DROP DATABASE My_First_Database
	Create a table in a database. Data Types Description	
CREATE TABLE "table_name" ("column 1"	integer(size) int(size) smallint(size) Hold integers only. The maximum number of digits are specified in parenthesis.	CREATE TABLE Person
"data_type_for_column_1", "column_2" "data_type_for_column_2",	tinyint(size) decimal(size,d) Hold numbers with fractions. The maximum number of digits are specified in "size". The maximum numeric(size,d) number of digits to the right of the decimal is specified in "d".	(LastName varchar, FirstName varchar, Address varchar, Age int)
)	char(size) Holds a fixed length string (can contain letters, numbers, and special characters). The fixed size is specified in parenthesis. Holds a variable length string (can contain letters, numbers, and special characters). The maximum size	Age int)
ALTER TABLE table name ADD	varchar(size) is specified in parenthesis. date(yyyymmdd) Holds a date	
column_name datatype ALTER TABLE table_name DROP column_name datatype	Add columns in an existing table. Delete columns in an existing table.	ALTER TABLE Person ADD Sex char(6) ALTER TABLE Person DROP Sex char(6)
DROP TABLE table_name Index Manipulation CREATE INDEX index name	Delete a table.	DROP TABLE Person
ON table_name (column_name_1, column_name_2,) CREATE UNIQUE INDEX	Create a simple index.	CREATE INDEX PersonIndex ON Person (LastName, FirstName)
index_name ON table_name (column_name_1, column_name_2,)	Create a unique index.	CREATE UNIQUE INDEX PersonIndex ON Person (LastName DESC)
DROP INDEX table_name.index_name Data Manipulation	Delete a index.	DROP INDEX Person.PersonIndex
INSERT INTO table_name VALUES (value_1, value_2,) INSERT INTO table name	Insert new rows into a table.	INSERT INTO Persons VALUES('Hussein', 'Saddam', 'White House') INSERT INTO Persons (LastName, FirstName,
(column1, column2,) VALUES (value_1, value_2,) UPDATE table_name		Address) VALUES('Hussein', 'Saddam', 'White House')
SET column_name_1 = new_value_1, column_name_2 = new_value_2	Update one or several columns in rows.	UPDATE Person SET Address = 'ups' WHERE LastName = 'Hussein'
WHERE column_name = some_value DELETE FROM table_name	Delete recording to the	DELETE FROM Person WHERE LastName =
WHERE column_name = some_value TRUNCATE TABLE table_name	Delete rows in a table. Deletes the data inside the table.	'Hussein' TRUNCATE TABLE Person
Select SELECT column_name(s) FROM table_name	Select data from a table.	SELECT LastName, FirstName FROM Persons
SELECT * FROM table_name SELECT DISTINCT column_name(s) FROM table_name	Select all data from a table. Select only distinct (different) data from a table.	SELECT * FROM Persons SELECT DISTINCT LastName, FirstName FROM Persons
	Select only certain data from a table.	SELECT * FROM Persons WHERE sex='female' SELECT * FROM Persons WHERE
	Operators	Year>1970 SELECT * FROM Persons WHERE FirstName='Saddam'
SELECT column_name(s) FROM table_name WHERE column operator value	Operator Description = Equal Not equal	AND LastName='Hussein' SELECT * FROM Persons WHERE FirstName='Saddam'
AND column operator value OR column operator value AND (OR)	 Greater than Less than Greater than or equal 	OR LastName='Hussein' SELECT * FROM Persons WHERE (FirstName='Tove' OR FirstName='Stephen')
	Less than or equal BETWEEN Between an inclusive range Search for a pattern.	AND LastName='Svendson' SELECT * FROM Persons WHERE FirstName LIKE 'O%'
	A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern.	SELECT * FROM Persons WHERE FirstName LIKE '%a' SELECT * FROM Persons WHERE FirstName LIKE '%la%'
SELECT column_name(s) FROM table_name WHERE column_name IN (value1,	The IN operator may be used if you know the exact value you want to return for at least one of the columns.	SELECT * FROM Persons
value2,)		WHERE I astName IN ('Hansen' 'Pettersen')
	Select data from a table with sort the rows.	WHERE LastName IN ('Hansen', 'Pettersen') SELECT * FROM Persons ORDER BY LastName
SELECT column_name(s) FROM table_name ORDER BY row 1, row 2 DESC.	Select data from a table with sort the rows. Note:	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC
_		SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons
table_name ORDER BY row_1, row_2 DESC,	Note: • ASC (ascend) is a alphabetical and numerical order (optional)	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name)	Note: • ASC (ascend) is a alphabetical and numerical order (optional) • DESC (descend) is a reverse alphabetical and numerical order 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 Function Description	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales
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table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_l_name, column_2_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield SELECT column_l_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield =	Note: * ASC (ascend) is a alphabetical and numerical order (optional) * DESC (descend) is a reverse alphabetical and numerical order 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 Function AVG(column) Returns the average value of a column AVG(column) Returns the average value of a column Returns the number of rows (without a NULL value) of a column MIN(column) Returns the lowest value of a column SUM(column) Returns the total sum of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias 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. The LEFT JOIN returns all the rows from the first table, even if there are no matches in the second table. If there had been any rows in second table that did not have matches in first 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, 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, 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, floose rows also would have been listed.	SELECT *FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name) FROM table_name GROUP BY group_column_name) FROM table_name GROUP BY group_column_name) HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1 _name, column_2 _name, FROM first_table_name INNER JOIN second_table_name ON first_table_name.foreign_keyfield SELECT column_1 _name, column_2 _name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield = second_table_name.foreign_keyfield SELECT column_1 _name, column_2 _name, FROM first_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield SELECT column_1 _name, column_2 _name, FROM first_table_name ON first_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield UNION SQL_Statement_1 UNION SQL_Statement_1 UNION SQL_Statement_2	Note: * ASC (ascend) is a alphabetical and numerical order (optional) * DESC (descend) is a reverse alphabetical and numerical order 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 Function AVG(column) Returns the average value of a column AVG(column) Returns the average value of a column Returns the number of rows (without a NULL value) of a column MIN(column) Returns the lowest value of a column SUM(column) Returns the total sum of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias 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. The LEFT JOIN returns all the rows from the first table, even if there are no matches in the second table. If there had been any rows in second table that did not have matches in first 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, 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, 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, floose rows also would have been listed.	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name, keyfield = second_table_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name keyfield = second_table_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name, foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name Nfirst_table_name keyfield = second_table_name, FROM first_table_name ON first_table_name RIGHT JOIN second_table_name RIGHT JOIN second_table_name ON first_table_name keyfield = second_table_name.foreign_keyfield UNION SQL_Statement_1 UNION SQL_Statement_1 UNION ALL SQL_Statement_2	Note: • ASC (ascend) is a alphabetical and numerical order (optional) • DESC (descend) is a reverse alphabetical and numerical order 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 Function Description AVG(column) Returns the average value of a column COUNT(column) Returns the highest value of a column MAX(column) Returns the lowest value of a column SUM(column) Returns the total sum of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias Table name alias 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. 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 * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, column_2_name, FROM first_table_name ON first_table_name keyfield = second_table_name, column_2_name, FROM first_table_name keyfield = second_table_name LEFT JOIN second_table_name ON first_table_name, column_2_name, FROM first_table_name keyfield = second_table_name.Froreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name keyfield = second_table_name.Froreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name IFROM first_table_name ON first_table_name.foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name IFROM first_table_name ON first_table_name IFROM first_table	ASC (ascend) is a alphabetical and numerical order (optional) DESC (descend) is a reverse alphabetical and numerical order 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 Function Function Peeturns the average value of a column COUNT(column) Returns the number of rows (without a NULL value) of a column MN(column) Returns the livelest value of a column SUM(column) Returns the towest value of a column SUM(column) Returns the towest value of a column IHAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias Table name alias 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. 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 would have been listed. Select all different values from SQL_Statement_1 and SQL_Statement_2 Select all values from SQL_Statement_1 and SQL_Statement_2	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT E_Name FROM Employees_Norway UNION SELECT E_Name FROM Employees_USA
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name) FROM table_name GROUP BY group_column_name) FROM table_name GROUP BY group_column_name) HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, column_2_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name, foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name, foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name, foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name, foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name IGHT JOIN second_table_name ON first_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield UNION SQL_Statement_1 UNION SQL_Statement_1 UNION SQL_Statement_2 SQL_Statement_2 SELECT INTO/IN SELECT column_name(s) INTO new_table_name FROM source_table_name	Note: * ASC (ascend) is a alphabetical and numerical order (optional) * DESC (descend) is a reverse alphabetical and numerical order 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 Function Returns the average value of a column Returns the average value of a column ANG(column) Returns the highest value of a column MIN(column) Returns the bighest value of a column SUM(column) Returns the total sum of a column SUM(column) Returns the total sum of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias Table name alias 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. 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, 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, 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, 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 * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT E_Name FROM Employees_Norway UNION SELECT E_Name FROM Employees_USA
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name FROM table_name GROUP BY group_column_name GROUP BY group_column_name HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, column_2_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name.keyfield = second_table_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name LEFT JOIN second_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name.keyfield = second_table_name.foreign_keyfield SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name.foreign_keyfield UNION SQL_Statement_1 UNION SQL_Statement_2 SQL_Statement_1 UNION SQL_Statement_2 SELECT INTO/IN SELECT column_name(s) INTO new_table_name FROM source_table_name FROM source_table_name WHERE query SELECT column_name(s) IN external_database_name FROM source_table_name WHERE query	ASC (ascend) is a alphabetical and numerical order (optional) DESC (descend) is a reverse alphabetical and numerical order 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 Function Function Peeturns the average value of a column COUNT(column) Returns the number of rows (without a NULL value) of a column MN(column) Returns the livelest value of a column SUM(column) Returns the towest value of a column SUM(column) Returns the towest value of a column IHAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias Table name alias 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. 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 would have been listed. Select all different values from SQL_Statement_1 and SQL_Statement_2 Select all values from SQL_Statement_1 and SQL_Statement_2	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT E_Name FROM Employees_Norway UNION SELECT E_Name FROM Employees_USA SELECT E_Name FROM Employees_USA
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name, FROM first_table_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name SELECT column_1_name, column_2_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name ELEFT JOIN second_table_name ON first_table_name ELECT column_1_name(s) INTO new_table_name FROM source_table_name FROM source_table_name FROM source_table_name FROM source_table_name WHERE query SELECT column_name(s) INTO new_table_name FROM source_table_name WHERE query SELECT column_name(s) IN external_database_name FROM source_table_name WHERE query CREATE VIEW CREATE VIEW CREATE VIEW view_name AS SELECT column_name(s)	ASC (ascend) is a alphabetical and numerical order (optional) DESC (descend) is a reverse alphabetical and numerical order 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 Function Function Function Returns the average value of a column OCOUNT(column) Returns the average value of a column MAX(column) MAX(column) Returns the highest value of a column SUM(column) Returns the three value of a column SUM(column) Returns the three value of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would be impossible to test for result conditions. Column name alias Table name alias Table name alias 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 also will be listed. The RIGHT 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. 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 all different values from SQL_Statement_1 and SQL_Statement_2 Select data from table(S) and insert it into another table. Select data from table(S) and insert it into another table.	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees Norders ON Employees.Employee_ID=Orders.Employee_ID SELECT E_Name FROM Employees_Norway UNION SELECT E_Name FROM Employees_Norway
table_name ORDER BY row_1, row_2 DESC, row_3 ASC, SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name FROM table_name GROUP BY group_column_name HAVING SUM(group_column_name) condition value Alias SELECT column_name AS column_alias FROM table_name SELECT table_alias.column_name FROM table_name AS table_alias Join SELECT column_1_name, column_2_name, FROM first_table_name INNER JOIN second_table_name ON first_table_name, FROM first_table_name, FROM first_table_name LEFT JOIN second_table_name ON first_table_name LEFT JOIN second_table_name ON first_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield = second_table_name RIGHT JOIN second_table_name ON first_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield = second_table_name.keyfield = second_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield = second_table_name RIGHT JOIN second_table_name ON first_table_name.keyfield = second_table_name.keyfield = second_tab	Note: * ASC (ascend) is a alphabetical and numerical order (optional) * DESC (descend) is a reverse alphabetical and numerical order 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 Punction AVG(column) Returns the average value of a column COUNI (column) Returns the average value of a column COUNI (column) Returns the sumber of rows (without a NULL value) of a column MN(column) Returns the total sum of a column SUM(column) Returns the total sum of a column HAVING was added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING if would be impossible to test for result conditions. Column name alias 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 also will be listed. 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 would have been listed. 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 for SQL_Statement_1 and SQL_Statement_2 Select all different values from SQL_Statement_1 and SQL_Statement_2 Select data from table(S) and insert it into another table.	SELECT * FROM Persons ORDER BY LastName SELECT FirstName, LastName FROM Persons ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000 SELECT LastName AS Family, FirstName AS Name FROM Persons SELECT LastName, FirstName FROM Persons AS Employees SELECT Employees.Name, Orders.Product FROM Employees INER JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID SELECT E_Name FROM Employees_ID SELECT E_Name FROM Employees_ID SELECT E_Name FROM Employees_IDSA