

Sql Introduction

- Structured Query Language
- It allows people to access and work with databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986,

Versions of SQL(Oracle database version)

1

- Oracle 8i, 9i
- Where i stands for Internet
- Starting 1999 and support for XML

2

- Oracle 10g,11g
- Where g stands for Grid Computing
- Starting 2003 and standard servers

3

- Oracle 12c
- Where c stands for Cloud
- Creation of pluggable databases in a multitenant container database

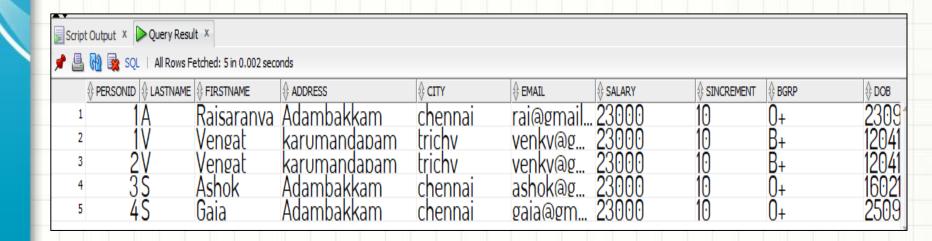
Purpose of SQL

- SQL is used to access information's or manage information's from the table, By executing queries against database.
- It is used to view information's in a database
- It is used to retrieve data from a database
- It is used to insert information in a database
- It is used to update records in a database
- It is used delete records from a database
- It is used to create new databases
- It is used to create new tables in a database
- It is used create stored procedures in a database
- SQL can set permissions on tables, procedures, and views

- TO CREATE A TABLE
- SYNTAX
- CREATE TABLE table_name (column's datatypes);
- CREATE TABLE Persons (
- PersonID int,
- LastName varchar(255),
- FirstName varchar(255),
- Address varchar(255),
- City varchar(255);



- TO ADD COLOUMNS IN A TABLE
- SYNTAX
- ALTER TABLE table_name (column's datatypes);
- ALTER TABLE Persons
 ADD Email varchar(255);



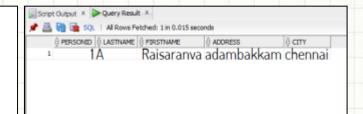
INSERT VALES IN TABLE

- SYNTAX
- INSERT INTO table_name (column's1)
 VALUES (value's);
- INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

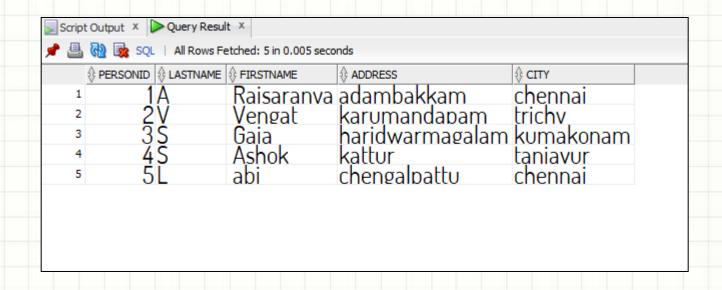
VALUES ('0001','A','Rajsaranya','adambakkam','chennai');

SQL> INSERT INTO Persons (PersonID,LastName, FirstName,Address,City) 2 VALUES ('0001','A',' Rajsaranya','adambakkam','chennai');

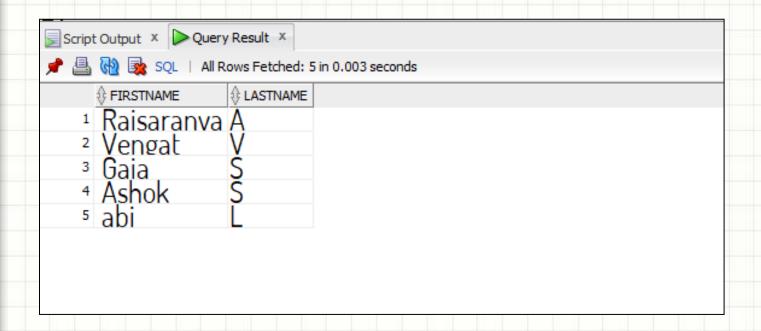
l row inserted.



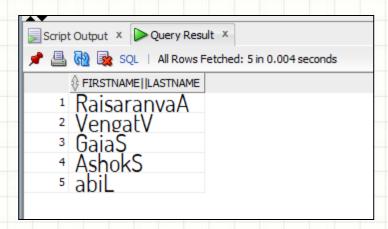
- TO VIEW ENTIRE TABLE
- SYNTAX
- SELECT * FROM Tablename;
- SELECT * FROM Persons;



- TO VIEW PARTICULAR COLOUNM AND ITS VALUES OF THE TABLE
- SYNTAX
- SELECT Coloumn name FROM Table name;
- SELECT FirstName ,LastName FROM Persons;



- TO PERFORM CONCATENATION USING PIPELINE IN THE TABLE
- SYNTAX
- SELECT Coloumn name1 | Coloumn name 2
 FROM Table name;
- SELECT FirstName | LastName From Persons;



- TO PERFORM CONCATENATION USING PIPELINE IN THE TABLE WITH SPACES
- SYNTAX
- SELECT Coloumn name1 ||''|| Coloumn name 2
 FROM Table name;
- SELECT FirstName | | ' '| | LastName From Persons;

```
PERSTNAME | "||LASTNAME

Raisaranva A

Vengat V

Gaia S

Ashok S

abi L
```

- TO PERFORM CONCATENATION IN THE TABLE WITH SPACES
- SYNTAX
- SELECT Coloumn name1 | |
- 'anything to be printed '|| Coloumn name 2 FROM Table name;

Script Output × Query Result ×

² Vengat. V ³ Ģaja , S

† FIRSTNAME ||'.'||LASTNAME

1 Raisaranva . A

SQL | All Rows Fetched: 5 in 0.002 seconds

SELECT FirstName | | ' . ' | | LastName From Persons;

- TO PERFORM CONCATENATION IN THE TABLE WITH SPACES
- SYNTAX
- SELECT Coloumn name1 | |
- 'anything to be printed '|| Coloumn name 2 FROM Table name;

Script Output × Query Result ×

² Vengat. V ³ Ģaja , S

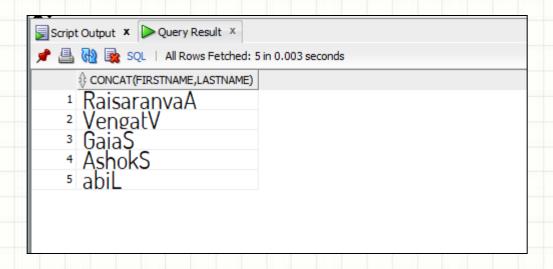
† FIRSTNAME ||'.'||LASTNAME

1 Raisaranva . A

SQL | All Rows Fetched: 5 in 0.002 seconds

SELECT FirstName | | ' . ' | | LastName From Persons;

- TO CONCAT COLOUMNS IN THE TABLE
- SYNTAX
- SELECT CONCAT(Column name, coloumn name) from table name;
- SELECT Concat(FirstName, LastName) FROM Persons;



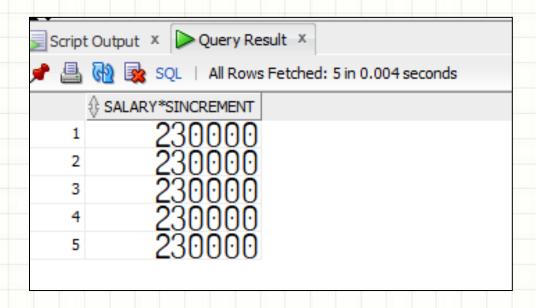
- TO ADD COLOUMNS IN THE TABLE
- SYNTAX
- ALTER TABLE table_name
 ADD column_name datatype(value);
- ALTER TABLE Persons
 ADD Persons_Salary varchar(data);
- ALTER TABLE Persons
 ADD Persons_Salary varchar(250);

	Script Output × December 2 Query Result × Query Result 1 × Pour 2 Query Result 2 × Pour 2 Query Result 2 × Pour 2 Query Result 3 × Pour 2 Query Result 1 × Pour 2 Query Result 2 × Pour 2 Query Result 2 × Pour 2 Query Result 3 × Pour 2 Query Result 4 × Pour 2 Query Result 5 in 0.004 seconds				
		ASTNAME FIRSTNAME		∯ CITY	
T	1 1A	Raisaranva	adambakkam	chennai	(null)
Ħ	2 2V	Vengat	karumandapam	trichv.	(null)
4	³ 3S	Gaja	haridwarmagalam	kumakonam	(null)
	4 4S	Ashok	kattur	taniavur	(null)
	5 5L	abi	chengalpattu	chennai	(null)
1					
t					

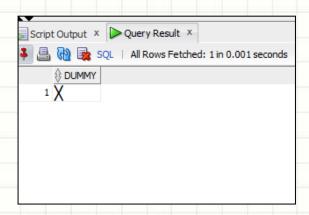
- TO PERFORM OPERATIONS IN THE TABLE USING ALIAS NAME
- SYNTAX
- SELECT Coloumn name Operator AS Newcoloumn name FROM Table name;
- SELECT Salary * Sincrement AS fullsalary FROM Persons;



- TO PERFORM OPERATIONS IN THE TABLE
- SYNTAX
- SELECT Coloumn name Operator FROM Table name;
- SELECT Salary * Sincrement FROM Persons;



- TO DUAL TABLE AND OPERATION
- SYNTAX
- SELECT * from dual;



- SELECT perform action from dual;
- SELECT 5+2+10-3 from dual;

