

Oracle Vs Sql Server

DDL COMMANDS

Ser	Concept	ORACLE	SQL Server
1	Create Database/Schema	We can create schema(user) only Grant DBA to username identified by (password);	We can create multiple databases in SQL Server 1. createDatabase Library 2. Go to Object Explorer =>Right Click on Databases =>Select New Database =>Give Database Name =>Select Location for Database files (.MDF and .LDF)
1	Create user/Schema	Create User username identified by password;	Create schema schema_name;
2	Create Table	1. Create table Book_Issue (BI_ID number(2) primarykey, B_ID number(2) references Book(B_ID), C_ID number(2) references Customer(C_ID), Issue_dt timestamp(0), Return_dt timestamp(0), Remarks varchar(250)); 2. Go to Connection in ORACLE SQL Developer =>Expand Schemas =>Right Click on Tables =>Select New Table =>Give Table Name =>Tick on Primary Key Button if it is Primary Key field. Type Column Name, Data Type, Size Not Null, Default and Comment =>Click on + button to add columns =>Save Table	1. Create table Book_Issue (BI_ID int primarykey identity (1,1), B_ID int foreignkey (B_ID) references Book(B_ID), C_ID int foreignkey (C_ID) references Customer(C_ID), Issue_dt Datetime, Return_dt Datetime, Remarks varchar(250)) 2. Go to Object Explorer in SQL SERVER =>Expand Databases =>Expand Database Objects =>Right Click on Tables =>Select New Table =>Type Column Name, Data Type and Allow Null =>Save Table
3	Add Column	ALTER TABLE Customer ADD dob DATE, ADD address VARCHAR (250);	ALTER TABLE Customer ADD dob DATE, Address VARCHAR (200)
4	Drop Column	ALTER TABLE Customer drop column address ;	ALTER TABLE Cust DROP COLUMN dob, address
5	Rename Table	RENAME BOOK TO BOOK_AUTHOR;	SP_RENAME Cust, Customer
6	Rename Column	Alter table customer rename column dob to birth_date;	SP_RENAME 'Customer.dob', 'Birth_date'
7	Change Field Type	ALTER TABLE Book MODIFY B_Name varchar2(50);	ALTER TABLE CUST ALTER COLUMN DOB DATE
8	Truncate Command	Truncate table emp;	Truncate table emp;
9	Drop Command	Drop table emp;	Drop table emp;

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DRL OR DQL Commands

Ser	Concept	ORACLE	SQL Server
12	Display all the EMPLOYEES information.	<code>SELECT * FROM EMP;</code>	<code>SELECT * FROM EMP</code>
13	Display DEPTNO, DNAME of all the departments	<code>SELECT DEPTNO,DNAME FROM DEPT;</code>	<code>SELECT DEPTNO,DNAME FROM DEPT</code>
14	Using Column Alias	<code>SELECT EMPNO AS ECODE, ENAME AS EMPNAME FROM EMP</code>	<code>SELECT EMPNO AS ECODE, ENAME AS EMPNAME FROM EMP</code>
15	Using Literals in a select statement	<code>SELECT ENAME ' WORKING AS ' JOB RESULT FROM EMP</code>	<code>SELECT ENAME + ' WORKING AS ' + JOB RESULT FROM EMP</code> Result : SMITH WORKING AS CLERK
16	Mathematical expression in select statement	<code>SELECT 10 + 20 FROM DUAL;</code> <code>SELECT 10 * 20 FROM DUAL;</code> <code>SELECT 5/2 FROM DUAL;</code> (Will give result with decimals) <code>SELECT 10 + 5 * 6 M1, (10+5) * 6 M2 FROM DUAL;</code>	<code>SELECT 10 + 20-- {FOR ADDITION}</code> <code>SELECT 10 * 20-- {FOR MULTIPLICATION}</code> <code>SELECT 5/2 -- WILL TREAT AS INTEGER (Will removes the decimals)</code> <code>SELECT 5/2.0 --Will give result with decimals</code> <code>SELECT 10 + 5 * 6 M1, (10+5) * 6 M2</code>
17	Display all those EMPLOYEES who are working as CLERKS .	<code>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK';</code>	<code>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK'</code>
18	Display all those EMPLOYEES who are working at Department Number 10	<code>SELECT * FROM DEPT WHERE DEPTNO = 10;</code> or <code>SELECT * FROM DEPT WHERE DEPTNO = '10';</code>	<code>SELECT * FROM DEPT WHERE DEPTNO = 10</code> or <code>SELECT * FROM DEPT WHERE DEPTNO = '10'</code>
19	Display ENAME, JOB of those EMPLOYEES who are not working as MANAGER	<code>SELECT ENAME, JOB FROM EMP WHERE JOB != 'MANAGER';</code>	<code>SELECT ENAME, JOB FROM EMP WHERE JOB != 'MANAGER'</code>
20	Display ENAME, JOB, and DEPTNO of those EMPLOYEES who are working as CLERK at DEPT NO 20.	<code>SELECT * FROM EMP WHERE JOB = 'CLERK' AND DEPTNO = 20;</code>	<code>SELECT * FROM EMP WHERE JOB = 'CLERK' AND DEPTNO = 20</code>
21	Display ENAME, JOB of those EMPLOYEES who are working as CLERK, ANALYST.	<code>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK' OR JOB = 'ANALYST';</code> <code>SELECT ENAME, JOB FROM EMP WHERE JOB IN ('CLERK', 'ANALYST');</code>	<code>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK' OR JOB = 'ANALYST'</code> <code>SELECT ENAME, JOB FROM EMP WHERE JOB IN ('CLERK', 'ANALYST')</code>
22	Display EMPNO, ENAME, DEPTNO of those EMPLOYEES who are working at 10, 30 Departments.	<code>SELECT EMPNO, ENAME, DEPTNO FROM EMP WHERE DEPT IN (10,30)</code>	<code>SELECT EMPNO, ENAME, DEPTNO FROM EMP WHERE DEPT IN (10,30)</code>
23	Display top 3 employees based on salary	<code>Use Dense_rank()</code>	<code>SELECT * FROM EMP WHERE SAL IN (SELECT DISTINCT TOP 3 SAL FROM EMP ORDER BY SAL DESC)</code> <code>UPDATE TOP(3) FROM EMP SET SAL = SAL + 1000</code> <code>DELETE TOP (3) FROM EMP</code>

Ser	Concept	ORACLE	SQL Server
20	Display ENAME, JOB, and DEPTNO of those EMPLOYEES who are working as CLERK at DEPT NO 20.	<pre>SELECT * FROM EMP WHERE JOB = 'CLERK' AND DEPTNO = 20;</pre>	<pre>SELECT * FROM EMP WHERE JOB = 'CLERK' AND DEPTNO = 20</pre>
21	Display ENAME, JOB of those EMPLOYEES who are working as CLERK, ANALYST.	<pre>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK' OR JOB = 'ANALYST';</pre> <pre>SELECT ENAME, JOB FROM EMP WHERE JOB IN ('CLERK', 'ANALYST');</pre>	<pre>SELECT ENAME, JOB FROM EMP WHERE JOB = 'CLERK' OR JOB = 'ANALYST'</pre> <pre>SELECT ENAME, JOB FROM EMP WHERE JOB IN ('CLERK', 'ANALYST')</pre>
22	Display EMPNO, ENAME, DEPTNO of those EMPLOYEES who are working at 10, 30 Departments.	<pre>SELECT EMPNO, ENAME, DEPTNO FROM EMP WHERE DEPT IN (10,30)</pre>	<pre>SELECT EMPNO, ENAME, DEPTNO FROM EMP WHERE DEPT IN (10,30)</pre>
23	Display ENAME, SAL of EMPLOYEE SAL Greater than or equal to 2000 & SAL less than or equal to 3000.	<pre>SELECT ENAME, SAL FROM EMP WHERE SAL >= 2000 AND SAL <=3000;</pre> <pre>SELECT ENAME, SAL FROM EMP WHERE SAL BETWEEN 2000 AND 3000;</pre>	<pre>SELECT ENAME, SAL FROM EMP WHERE SAL >= 2000 AND SAL <=3000</pre> <pre>SELECT ENAME, SAL FROM EMP WHERE SAL BETWEEN 2000 AND 3000</pre>
24	Display ENAME, JOB, DEPTNO of those Employees who are not working as CLERK, ANALYST.	<pre>SELECT ENAME, JOB, DEPTNO FROM EMP WHERE JOB NOT IN ('CLERK', 'ANALYST');</pre>	<pre>SELECT ENAME, JOB, DEPTNO FROM EMP WHERE JOB NOT IN ('CLERK', 'ANALYST')</pre>
25	Display all those Employees whose salary is not in a range of 1000 and 3000.	<pre>SELECT * FROM EMP WHERE SAL NOT BETWEEN 1000 AND 3000;</pre>	<pre>SELECT * FROM EMP WHERE SAL NOT BETWEEN 1000 AND 3000</pre>
26	Display all the Employees who are working as CLERK, ANALYST and SAL is greater than 1000.	<pre>SELECT * FROM EMP WHERE JOB = 'CLERK' OR 'ANALYST' AND SAL >1000;</pre> <p>(or)</p> <pre>SELECT * FROM EMP WHERE JOB IN ('CLERK', 'ANALYST') AND SAL >1000;</pre>	<pre>SELECT * FROM EMP WHERE JOB = 'CLERK' OR 'ANALYST' AND SAL >1000</pre> <p>(or)</p> <pre>SELECT * FROM EMP WHERE JOB IN ('CLERK', 'ANALYST') AND SAL >1000</pre>
27	Display ENAME, SAL, ANNUAL SAL of those Employees whose annual salary is in range of 18000 and 36000.	<pre>SELECT ENAME, SAL, SAL*12 AS ANNUALSAL FROM EMP WHERE SAL*12 BETWEEN 18000 AND 36000;</pre>	<pre>SELECT ENAME, SAL, SAL*12 AS ANNUALSAL FROM EMP WHERE SAL*12 BETWEEN 18000 AND 36000</pre>
28	Display ENAME, JOB, SAL, COMM and DEPTNO who are working as SALESMAN at DEPTNO 30 and there commission is > half of their salary.	<pre>SELECT * FROM EMP WHERE JOB = 'SALESMAN' AND DEPTNO = 30 AND COMM >SAL/2;</pre>	<pre>SELECT * FROM EMP WHERE JOB = 'SALESMAN' AND DEPTNO = 30 AND COMM >SAL/2</pre>
29	Display all those Employees who are not earning commission.	<pre>SELECT * FROM EMP WHERE COMM IS NULL;</pre>	<pre>SELECT * FROM EMP WHERE COMM IS NULL</pre>
30	Display all those Employees whose are earning commission	<pre>SELECT * FROM EMP WHERE COMM IS NOT NULL;</pre> <pre>SELECT * FROM EMP WHERE NOT COMM IS NULL;</pre>	<pre>SELECT * FROM EMP WHERE COMM IS NOT NULL</pre> <pre>SELECT * FROM EMP WHERE NOT COMM IS NULL</pre>

DML Commands

To insert all columns	Insert into emp values (1101, 'Arun', '21-Jul-2018')	Insert into emp Values (1101, 'Arun', '2018-07-21')
To Insert Specific Columns	Insert into emp(empno,ename) Values (1101, 'Ajay')	Insert into emp(empno,ename) values (1101, 'Ajay'), (1102, 'Arun'), (1103, 'Akil')
To insert data from one table to another table which is already created	Insert into emp_tgt Select * from source	Insert into emp_tgt Select * from emp_src
To create the table and populate records from another table	Create table emp_new As select * from scott.emp;	Select * into emp_new from emp;
To Update the columns	Update emp set sal=sal+1000 Where empno=1010	Same as Oracle
To delete the records	Delete from emp Where sal>1000;	Same as Oracle
TCL	Commit (To make change permanent) Rollback (To undo change) Savepoint a; (Create a marker) Rollback to savepoint a;	Begin tran Commit; Rollback tran s; Save tran F;

DCL Commands

Grant	Same	GRANT SELECT ON EMP TO AHMED GRANT SELECT, DELETE ON DEPT TO AHMED GRANT ALL ON PROD1 TO KHAN GRANT SELECT ON SALGRADE TO AHMED WITH GRANT OPTION GRANT SELECT ON EMP2 TO PUBLIC
Revoke	Same	REVOKE SELECT ON EMP FROM AHMED REVOKE SELECT ON SALGRADE FROM AHMED CASCADE
Deny	No	DENY PRIVILEGES/ALL ON OBJECT NAME TO USER1... PUBLIC

Scalar Datatypes

Integer Data	Number	INT SMALLINT BIGINT TINYINT DECIMAL NUMERIC MONEY SMALLMONEY
REAL Numbers		FLOAT REAL

Date And Time	Date	DATE DATETIME SMALLDATETIME
STRING Datatype	Varchar Varchar2	CHAR NCHAR VARCHAR NVARCHAR
Unstructured DATA		BINARY VARBINARY IMAGE XML

DATA DICTIONARY VIEWS (METADATA)

To display list of User Defined Tables	<code>SELECT*FROM USER_TABLES; SELECT*FROM USER_OBJECTS WHERE OBJECT_TYPE='TABLE' ;</code>	<code>SELECT NAME FROMSYS.TABLES SELECT NAME FROMSYS.SYSOBJECTSWHERE XTYPE ='U' Select * from information_schema.tables;</code>
To display list of System Tables		<code>SELECT NAME FROMSYS.SYSOBJECTSWHERE XTYPE ='S'</code>
To Display Column Information	Select column_name from User_Tab_Cols Where table_name='EMP'	<code>select column_name from information_schema.columns where table_name='EMP'</code>
To display list of User Defined Views	Select name from user_views	<code>SELECT NAME FROM SYS.SYSOBJECTS WHERE XTYPE = 'V' SELECT NAME FROM SYS.VIEWS SP_HELPTEXT<View_name> SP_HELP<View_name> SP_DEPENDS<Table_name>/<View_name> SP_REFRESHVIEW<View_name> Select * from information_schema.views</code>
To display STRUCTURE or DEFINITION or METADATA of a Table	<code>Desc< TABLE_NAME ></code>	<code>SP_HELP < TABLE_NAME > SP_HELP'EMP'</code>
To Display List of Synonyms	<code>Select * from User_synonyms</code>	<code>Select name,base_object_name from sys.synonyms Sp_help<Synonym_name></code>
To display list of schema		<code>SP_help <schema_name.emp></code>
To display list of Indexes	<code>Select * from User_Indexes</code>	<code>SP_HELPINDEX<Table_name> SELECT NAME FROM SYS.INDEXES; select * from sys.indexes where object_id=(select object_id from sys.objects where name='EMP');</code>
Information about tables	<code>All_tables or Db_tables</code>	<code>select * from information_schema.tables</code>
Information about constraints	<code>User_constraints</code>	<code>Select * from information_schema.table_constraints</code>

Constraints

Domain Integrity Entity Integrity Referential Integrity	Not null Check Default Primary key Unique Foreign Key	Not null Check Default Primary key Unique Foreign Key
	Same	<pre>CREATE TABLE EMP1(ENO INT NOT NULL, ENAME VARCHAR(10) NOT NULL, JOB VARCHAR(15) CHECK (JOB IN ('CLERK', 'MANAGER', 'OPERATIONS')), SAL INT CONSTRAINT SAL_CHK CHECK (SAL BETWEEN 15000 AND 20000), DOJ SMALLDATETIME DEFAULT GETDATE(), DNO INT CONSTRAINT DF_DNO DEFAULT 20)</pre>
	Same	COLUMN LEVEL <pre>CREATE TABLE STUDENT (RNO INT UNIQUE, SN VARCHAR(10) CONSTRAINT SN_UQ UNIQUE)</pre> TABLE / ENTITY LEVEL <pre>CREATE TABLE STUDENT (RNO INT, SN VARCHAR(10), UNIQUE (RNO) CONSTRAINT SN_UQ UNIQUE (SN))</pre>
Composite Unique Key		<pre>CREATE TABLE STUDENT(RNO INT, SNAME VARCHAR(10), CLASS INT, UNIQUE (RNO, CLASS))</pre>
Composite Primary Key		<pre>CREATE TABLE STUDENT (RNO INT, SNAME VARCHAR(10), CLASS INT, PRIMARY KEY (RNO, CLASS))</pre>
CREATING MULTIPLE CONSTRAINTS ON A SINGLE COLUMN		<pre>CREATE TABLE EMPLOYEE (ENO INT PRIMARY KEY, ENAME VARCHAR(15) NOT NULL UNIQUE, SAL INT NOT NULL UNIQUE CHECK (SAL BETWEEN 15000 AND 20000))</pre>

MATHEMATICAL/NUMBERFUNCTIONS

Ser	ORACLE	SQL Server
1	Same as in SQL Server	ABS (NUMBER) - returns unsigned value of a given number (Number - Argument or Parameter. <pre>SELECT ABS (-890), ABS(17)</pre>
2	Same as in SQL Server	SQRT (NUMBER) - Returns square root of a given positive number.
3	Same as in SQL Server	SQUARE (NUMBER) - Returns square of a given value
4	Same as in SQL Server	POWER (NUMBER(Base), NUMBER(Exponent)) - It will find the power of a given number. <pre>SELECT POWER (2,5)</pre>
5	Same as in SQL Server	SIGN (NUMBER) Returns 1 if a number is positive Returns -1 if a number is negative Returns 0 if a number is zero
6	No Concept in ORACLE	PI () - Returns PI value
7	No Concept in ORACLE	SIN (NUMBER) - By default this function will take input given in radians, hence radians should be

		converted to degrees by a standard formula is $PI() / 180$ <code>SELECT SIN (30* PI() / 180)</code>
8	Same as in SQL Server	<code>ROUND (NUMBER, NUMBER , [NUMBER])</code> Argument1, Argument2, Argument3 (optional for TRUNCATE) By default Argument3 is ZERO <code>ROUND(1234.5678,2,1) --- 1234.5600</code> <code>ROUND(5/2.0,0) --- 3.00</code> <code>ROUND(5/2.0,0,1) --- 2</code>
9	<code>CEIL (NUMBER)</code>	<code>CEILING (NUMBER)</code> - This function will increment a given number to its nearest integer. Based on any digit in decimal points is greater than zero. <code>CEILING (123.000) ---- 123</code> <code>CEILING (123.010) ---- 124</code> <code>CEILING (123.456) ---- 124</code>
10	Same as in SQL Server	<code>FLOOR (NUMBER)</code> - It decreases a nearest integer <code>FLOOR (-123.456) ---- {-124}</code>
11	<code>SELECT MOD(25,5) FROM DUAL;</code> ---- will get the remainder	<code>SELECT 25%5</code>
12	<code>SELECT TRUNC(5.92,0) FROM DUAL; --5</code> <code>SELECT TRUNC(5.92,1) FROM DUAL; --5.9</code> <code>SELECT TRUNC(5.92,2) FROM DUAL; --5.92</code>	No Concept in SQL Server

STRING FUNCTIONS

Ser	ORACLE	SQL Server
1	Select UPPER('oracle') from dual	Select UPPER('oracle')
2	Select lower('oracle') from dual	Select lower('oracle')
3	Select initcap('oracle') from dual	No Concept
4	<code>LENGTH(TEXT);</code> <code>SELECT ENAME, LENGTH(ENAME) FROM EMP WHERE LENGTH(ENAME) >5;</code>	<code>LEN(TEXT)</code> <code>SELECT ENAME, LEN(ENAME) FROM EMP WHERE LEN(ENAME) >5</code>
5	<code>SELECT SUBSTR('COMPUTER',1,3) FROM DUAL;</code>	<code>LEFT('COMPUTER',3) ---- COM</code>
6	<code>SELECT SUBSTR('COMPUTER',-3) FROM DUAL;</code>	<code>RIGHT('COMPUTER',3) ---- TER</code>
7	<code>SUBSTR('COMPUTER',4,3);</code>	<code>SUBSTRING ('COMPUTER',4,3) -- PUT</code>
8	<code>LTRIM (STRING);</code>	<code>LTRIM (STRING)</code>
9	<code>RTRIM (STRING);</code> <code>SELECT rtrim('100%', '%') FROM DUAL;</code> Result : 100	<code>RTRIM (STRING)</code>
10	No concept in ORACLE	<code>REPLICATE (STRING, NUMBER)</code> <code>REPLICATE ('COMM',2)</code>
11	<code>REVERSE (STRING);</code> <code>SELECT REVERSE ('COMM')</code>	<code>REVERSE (STRING)</code> <code>SELECT REVERSE ('COMM') --- MMOC</code>
12	Same as SQL Server	<code>REPLACE (STRING1, STRING2, STRING3)</code> <code>REPLACE ('COMPUTER', 'UT', 'IR')</code>
13	No concept in ORACLE	<code>STUFF (STRING1, NUMBER1, NUMBER2, STRING2)</code> <code>STUFF ('COMPUTER',5,2, 'IL') -- COMPILER</code>
14	<code>INSTR ('COMPUTER', 'R', 1, 1)</code>	<code>CHARINDEX (STRING1, STRING2, [NUMBER])</code> <code>SELECT CHARINDEX ('R', 'COMPUTER', 7)</code>
15	<code>SELECT LPAD ('100', 6, '0') FROM DUAL;</code>	No concept in SQL SERVER

	Result : 000100	
16	SELECT RPAD('COMPUTER',10,'A') FROM DUAL; Result : COMPUTERAA	No concept in SQL SERVER
17	SELECT TRANSLATE('COMPUTER','PT','NQ') FROM DUAL; Result : COMNUQER	No concept in SQL SERVER

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DATE FUNCTIONS

Ser	ORACLE	SQL Server
1	SELECT SYSDATE FROM DUAL; --It returns the Current Sys Date 20-Apr-18	GETDATE() --It returns current system DATE & TIME of the Server
2	SELECT TO_CHAR(SYSDATE, 'DD') FROM DUAL; --23 SELECT TO_CHAR(SYSDATE, 'MM') FROM DUAL; --04 SELECT TO_CHAR(SYSDATE, 'YYYY') FROM DUAL; --2018	SELECT DAY(GETDATE()) -----20 SELECT MONTH(GETDATE()) ----- 4 SELECT YEAR(GETDATE()) -----2018
3	SELECT SYSDATE+10 FROM DUAL; SELECT ADD_MONTHS(SYSDATE, 10) FROM DUAL; SELECT TO_CHAR(SYSDATE, 'YYYY')+10 FROM DUAL;	SELECT DATEADD(DAY, 10, GETDATE()) SELECT DATEADD(DD, 10, GETDATE()) SELECT DATEADD(MONTH, 10, GETDATE()) SELECT DATEADD(MM, 10, GETDATE()) SELECT DATEADD(YEAR, 10, GETDATE()) SELECT DATEADD(YY, 10, GETDATE())
4	SELECT TO_DATE('10-FEB-2018') - TO_DATE('10-FEB-17') FROM DUAL; SELECT MONTHS_BETWEEN('10-FEB-2018', '10-FEB-17') FROM DUAL; SELECT TO_CHAR(TO_DATE(SYSDATE), 'YYYY') - TO_CHAR(TO_DATE('10-FEB-17'), 'YYYY') FROM DUAL;	SELECT DATEDIFF(DAY, '2016-04-20', GETDATE()) SELECT DATEDIFF(MONTH, '2016-04-20', GETDATE()) SELECT DATEDIFF(YEAR, '2016-04-20', GETDATE())
5	SELECT EXTRACT(DAY FROM SYSDATE) FROM DUAL; --23 SELECT EXTRACT(MONTH FROM SYSDATE) FROM DUAL; --04 SELECT EXTRACT(YEAR FROM SYSDATE) FROM DUAL; --2018	DATEPART(DD, GETDATE()) --can use MM:YY:HH:MI:SS:DW instead of DD SELECT DATEPART(DD, GETDATE()) --23 SELECT DATEPART(MM, GETDATE()) --04 SELECT DATEPART(YY, GETDATE()) --2018 SELECT DATEPART(DW, GETDATE()) --2 SELECT DATEPART(DY, GETDATE()) --113 (Day of Year)
6	SELECT TO_CHAR(SYSDATE, 'YEAR') FROM DUAL; --TWENTY EIGHTEEN SELECT TO_CHAR(SYSDATE, 'Month') FROM DUAL; --April SELECT TO_CHAR(SYSDATE, 'MONTH') FROM DUAL; --APRIL	DATENAME(DATEPART, DATE) --In this function month name, day name will be extracted other date parts providing same output SELECT DATENAME(MM, GETDATE()) --April SELECT DATENAME(DW, GETDATE()) --Monday
7	SELECT LAST_DAY(SYSDATE) FROM DUAL; --LAST DATE OF MONTH	SELECT EOMONTH(GETDATE()) --LAST DATE OF MONTH
8	SELECT NEXT_DAY(SYSDATE, 'MONDAY') FROM DUAL; --NEXT MONDAY'S DATE	NO CONCEPT IN SQL SERVER
9	SELECT TRUNC(SYSDATE, 'YY') FROM DUAL; SELECT TRUNC(SYSDATE, 'MM') FROM DUAL; SELECT TRUNC(SYSDATE, 'DY') FROM DUAL; SELECT TRUNC(SYSDATE, 'Q') FROM	SELECT DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()), 0) --to get 1 st Day of the Current Year

	DUAL;	
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DATA CONVERSIONS

Ser	ORACLE	SQL Server
1	SAME SELECT 5/CAST(2 AS FLOAT) FROM DUAL;	CAST(SOURCE_DATA AS TARGET_DATA_TYPE) SELECT 5/ CAST(2 AS FLOAT)
2	SELECT TO_CHAR(6) FROM DUAL; SELECT TO_NUMBER('6') FROM DUAL; SELECT TO_DATE('12','DD') FROM DUAL; -- 12-APR-2018 SELECT TO_DATE('12','YYYY') FROM DUAL; -- 01-APR-2012 SELECT TO_CHAR(SYSDATE,'MM') FROM DUAL; --04 SELECT TO_CHAR(SYSDATE,'MONTH') FROM DUAL; --APRIL	CONVERT(TARGET_DATA_TYPE, SOURCE_DATA [NUMBER]) SELECT 5/ CONVERT(FLOAT,2) SELECT CONVERT(VARCHAR(30), GETDATE(),0) -- Apr 24 2018 1:51PM SELECT CONVERT(VARCHAR(30), GETDATE(),8) -- 13:48:53 CONVERSION WOULDN'T WORK IF WE GIVE DATEPART AS INPUT AS IT WORKS IN ORACLE SELECT CONVERT(VARCHAR(30), GETDATE(),103) -- 24/04/2018 SELECT CONVERT(VARCHAR(30), GETDATE(),105) -- 24-04-2018 SELECT CONVERT(VARCHAR(30), GETDATE(),106) --24 Apr 2018

RANKING OR WINDOW FUNCTIONS

Ser	ORACLE	SQL Server
1	Same as in SQL Server	ROW_NUMBER() -- Provides unique row number for each row RANK() --It calculates ranks with gaps DENSE_RANK() -- It calculates ranks with out gaps NTILE(INT) -- Provides the data in to groups / blocks. It will group the data based on the user specified number and number of rows available in a table.

OTHER FUNCTIONS

Ser	ORACLE	SQL Server
1	NVL(EXPRESSION1, EXPRESSION2) SELECT ENAME, SAL, COMM, NVL(COMM,0) RS FROM EMP; SELECT ENAME, SAL, COMM, NVL(ENAME, 'UNKNOWN') UN FROM EMP; SELECT ENAME, SAL, COMM, NVL(CAST(COMM AS VARCHAR(4)), 'NC') RS FROM EMP; SELECT ENAME, SAL, COMM, SAL+ NVL(COMM,0) RS FROM EMP;	ISNULL(EXPRESSION1, EXPRESSION2) SELECT ENAME, SAL, COMM, ISNULL(COMM,0) RS FROM EMP SELECT ENAME, SAL, COMM, ISNULL(ENAME, 'UNKNOWN') UN FROM EMP SELECT ENAME, SAL, COMM, ISNULL (CAST(COMM AS VARCHAR(4)), 'NC') RS FROM EMP SELECT ENAME, SAL, COMM, SAL+ISNULL(COMM,0) RS FROM EMP
2	Same as in SQL Server	COALESCE(EXPRESSION1, EXPRESSION2.....EXPRESSIONN)

Ser	ORACLE	SQL Server
		NULLIF(EXPRESSION1, EXPRESSION2)

3	Same as in SQL Server	<pre>-- It is used to compare two expressions of any datatype. If equal it returns NULL, if not equal returns value of Expression1 SELECT NULLIF(10,10) -----NULL SELECT NULLIF(10,90) -----10 SELECT NULLIF('X','Y')--- X</pre>
4	Same as in SQL Server and we have one more option like	<pre>CASE EXPRESSION WHEN CONDITION1 THEN RESULT1 [WHEN CONDITION2 THEN RESULT2] ELSE DEFAULT_RESULT END [ALIAS_NAME] SELECT ENAME, DEPTNO, SAL, CASE DEPTNO WHEN 10 THEN SAL* 20/100 WHEN 20 THEN SAL * 18/100 WHEN 30 THEN SAL*15/100 END INCR FROM EMP;</pre>

MULTIROW FUNCTIONS OR GROUP FUNCTIONS

Ser	ORACLE	SQL Server
1	<p>Same as in SQL Server except COUNT_BIG .</p> <p>There is no concept like COUNT_BIG in ORACLE</p>	<pre>SUM (EXPRESSION) - finds the sum of values in given expression. AVG (EXPRESSION) - first finds the sum and then divide with number of values in theexpression. MAX (EXPRESSION) - finds the maximum value in the given expression. MIN (EXPRESSION) - finds the minimum value in the given expression. COUNT (EXPRESSION) --- returns number of values in a expression including duplicates. COUNT (DISTINCT (EXPRESSION)) - returns number of values in an expression excludingduplicates. COUNT (*) - returns number of rows. COUNT_BIG (EXPRESSION) - returns number of values. GROUPING (EXPRESSION) - returns zero or one. Examples :- SELECT SUM(COMM) R1, AVG(COMM) R2, COUNT(COMM)R3 FROM EMP SELECT SUM(SAL), MAX(SAL)FROM EMP WHERE DEPTNO=30 SELECT COUNT(SAL) FROM EMP SELECT COUNT(DISTINCT(SAL)) FROM EMP</pre>
GROUP BY:		
2	Same as in SQL Server	<pre>SELECT DEPTNO, JOB, SUM(SAL), COUNT(*) FROM EMP GROUP BY JOB , DEPTNO SELECT DEPTNO, SUM(SAL), COUNT(*) FROM EMP WHERE DEPTNO = 20 GROUP BY DEPTNO</pre>

ROLLUP :		
3	<pre>SELECT DEPTNO, SUM(SAL), COUNT(*) FROM EMP GROUPBYROLLUP (DEPTNO) SELECT DEPTNO, JOB, SUM(SAL), COUNT(*) FROM EMP GROUPBYROLLUP (DEPTNO, JOB) SELECT DEPTNO, JOB, SUM(SAL), COUNT(*), GROUPING (DEPTNO) gpdpt, GROUPING (JOB) gpjob FROM EMP GROUPBYROLLUP (DEPTNO, JOB) SELECT DEPTNO ,CASEGROUPING (JOB) WHEN 0 THEN JOB WHEN 1 THEN 'ALL JOBS' END DEP, SUM(SAL), COUNT(*) FROM EMP GROUPBYROLLUP (DEPTNO, JOB)</pre>	<pre>SELECT DEPTNO, SUM(SAL), COUNT(*) FROM EMP GROUPBYDEPTNO WITHROLLUP SELECT DEPTNO, JOB, SUM(SAL), COUNT(*) FROM EMP GROUPBY DEPTNO, JOB WITHROLLUP SELECT DEPTNO, JOB, SUM(SAL), COUNT(*), GROUPING (DEPTNO) gpdpt, GROUPING (JOB) gpjob FROM EMP GROUPBY DEPTNO, JOB WITHROLLUP SELECT DEPTNO , CASEGROUPING (JOB) WHEN 0 THEN JOB WHEN 1 THEN 'ALL JOBS'--Replaces NULLS With Value END DEP, SUM(SAL), COUNT(*) FROM EMP GROUPBY DEPTNO, JOB WITHROLLUP</pre>
CUBE :		
4	<pre>SELECT DEPTNO, JOB, SUM(SAL), COUNT(*) FROM EMP GROUPBYCUBE (DEPTNO, JOB); SELECT DISTINCT JOB, SUM (CASE DEPTNO WHEN 10 THEN SAL END) "D10", SUM (CASE DEPTNO WHEN 20 THEN SAL END) "D20", SUM (CASE DEPTNO WHEN 30 THEN SAL END) "D30", SUM (SAL) "TOTAL SAL" FROM EMP GROUP BY JOB</pre>	<pre>SELECT DEPTNO, JOB, SUM(SAL), COUNT(*) FROM EMP GROUP BY DEPTNO, JOB WITHCUBE SELECTDISTINCT JOB, SUM(CASE DEPTNO WHEN 10 THEN SAL END) 'D10', SUM(CASE DEPTNO WHEN 20 THEN SAL END) 'D20', SUM(CASE DEPTNO WHEN 30 THEN SAL END) 'D30', SUM(SAL) 'TOTAL SAL' FROM EMP GROUPBY JOB</pre>
HAVING CLAUSE :		
5	Same as in SQL Server	<pre>SELECT DEPTNO, SUM(SAL) FROM EMP GROUP BY DEPTNO HAVING DEPTNO = 20 AND SUM(SAL) >9000</pre>
SOME/ANY :		
6	Same as in SQL Server	<p>This Operator will allow a Sub Query to written multiple rows even though in OUTER Query Condition is made by using relational operators.</p> <p>It works like "OR" LOGICAL OPERATOR.</p> <p>It Can be used with all RELATIONAL OPERATORS [> ANY , < ANY, = ANY, !=ANY , >= ANY, <= ANY]</p> <pre>SELECT * FROM EMP WHERE SAL < ANY (SELECT DISTINCT SAL FROM EMP WHERE DEPTNO = 20)</pre>
ALL :		
8	Same as in SQL Server	<p>This Operator also allows a sub query to written muliple rows even though in Outer Querycondition is made using relational operators.</p> <p>It works like "AND" LOGICAL OPERATOR.</p> <p>It can also be used with ALL Relational Operators.</p> <pre>SELECT * FROM EMP WHERE SAL < ALL (SELECT DISTINCT SAL FROM EMP</pre>

		WHERE DEPTNO =20)
EXISTS / NOT EXISTS OPERATOR		
9	Same as in SQL Server	EXISTS: It Returns Boolean value ie.. True or False If Condition at inner query is satisfied than it will written True else written with False Q) Display DEPTNO, DNAME of those Department's where atleast one Employee is working. <pre>SELECT DEPTNO, DNAME FROM DEPT DWHERE EXISTS (SELECT 1 FROM EMP WHERE DEPTNO = D.DEPTNO)</pre>
10	Same as in SQL Server	NOT EXISTS: This operator also writtens Boolean Value i.e. TRUE or FALSE If Condition at INNER Query is FALSE then it returns TRUE Q) Display DEPTNO, DNAME of those Department's where no Employee is working. <pre>SELECT DEPTNO, DNAME FROM DEPT DWHERE NOT EXISTS (SELECT 1 FROM EMP WHERE DEPTNO = D.DEPTNO) OR SELECT DEPTNO,DNAME FROM DEPTWHERE DEPTNO = ((SELECT DEPTNO FROM DEPT) EXCEPT (SELECT DISTINCT DEPTNO FROM EMP))</pre>

Database Objects

Synonyms

Synonyms	Create synonym syn_emp For emp;	Same as Oracle
List of synonyms in database	Select * from user_synonyms	Select name,base_object_name from sys.synonyms
Details of synonym	Desc syn_emp	Sp_help syn_emp
Dropping synonyms	Drop synonym syn_emp	Same
Data Dictionary	Desc User_synonyms	

Indexes

Indexes	Clustered Nonclustered Unique Non Unique Composite Function based Index	Clustered Nonclustered Unique
Unique Index	Same	CREATE UNIQUE INDEX IND4 ON DEPT (DEPTNO)
To create non clustered index	Create index inx_emp On employees(empno) ; (By default)	CREATE NONCLUSTERED INDEX INDX2 ON EMP (ENAME)
Dropping Index	Drop index inx_emp	Same
To view information	Desc user_indexes	Sp_helpindex <tablename>
Primary Key column by default	Unique Non Clustered index	Unique Clustered index
Create Clustered index		Create clustered index inx_emp On emp(empno)

Disabling Indexes		Alter index inx_emp on emp disable;
Data Dictionary	Desc user_indexes;	SELECT * FROM sys.indexes WHERE object_id = OBJECT_ID('schema.MyTableName')

Views

Creating Views	CREATE VIEW < VIEW_NAME > AS SELECT QUERY [WITH CHECK OPTION]	CREATE VIEW < VIEW NAME > [WITH ENCRYPTION] / [WITH SCHEMA BINDING] AS SELECT QUERY [WITH CHECK OPTION]
To refresh the view		SP_REFRESHVIEW < VIEW_NAME >
Creating Views	Same	CREATE VIEW V1 AS SELECT * FROM EMP
Check Option View	Same	CREATE VIEW V4 AS SELECT EMPNO, ENAME FROM EMP WHERE DEPTNO = 10 WITH CHECK OPTION
Read Only View	CREATE VIEW V4 AS SELECT EMPNO, ENAME FROM EMP WHERE DEPTNO = 10 WITH READ ONLY	
Information about view	Desc User views	SP_HELP V1
Query stored in the View		SP_HELPTEXT < VIEW_NAME >
Display list of Views dependent on table		SP_DEPENDS < TABLE_NAME > / < VIEW_NAME >
Encrypted View	No Concept	CREATE VIEW V9 WITH ENCRYPTION AS SELECT * FROM EMP create view vw_emp_encry with encryption as select empno,ename,sal from emp
Schema binding View	No Concept	CREATE VIEW V10 WITH SCHEMA BINDING AS SELECT * FROM EMP --Error & also cannot drop base tables create view vw_emp_schema with schemabinding as select empno,ename,sal from dbo.emp
Materialized Or Indexed View Syntax	Materialized View	Indexed View Creating unique clustered index on views create unique clustered index inx_emp1 on vw_emp_schema(empno);

Information about materialized view/Indexed Views	User_mvviews	<pre>select OBJECT_SCHEMA_NAME(object_id) as [SchemaName], OBJECT_NAME(object_id) as [ViewName], Name as IndexName from sys.indexes where object_id in (select object_id from sys.views)</pre> <p>The inner join version</p> <pre>select OBJECT_SCHEMA_NAME(si.object_id) as [SchemaName], OBJECT_NAME(si.object_id) as [ViewName], si.Name as IndexName from sys.indexes AS si inner join sys.views AS sv ON si.object_id = sv.object_id</pre>
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Sequences Or Identity

Creating sequence	<pre>Create sequence seq_emp Start with 1 Increment by 1 Minvalue 1 Maxvalue 20 Cycle Cache 5; To get nextvalue Select seq_emp.nextval from dual To get current value Select seq_emp.currval from dual</pre>	<pre>CREATE SEQUENCE Test.DecSeq AS int START WITH 125 INCREMENT BY 25 MINVALUE 100 MAXVALUE 200 CYCLE CACHE 3 To get nextvalue SELECT NEXT VALUE FOR Test.DecSeq; To get current value SELECT current_value FROM sys.sequences WHERE name = 'Seq_emp' ;</pre>
Altering Sequences	<pre>alter sequence seq_emp increment by 5 cycle; Start with value cannot be altered.</pre>	<pre>ALTER SEQUENCE Test. TestSeq START WITH 100 INCREMENT BY 50 MINVALUE 50 MAXVALUE 200 NO CYCLE NO CACHE</pre>
Dropping Sequences	Drop sequence seq_emp;	Drop sequence seq_emp;
Last Value stored into IDENTITY COLUMN		<pre>SELECT @@IDENTITY OR SELECT SCOPE_IDENTITY() OR SELECT IDENT_CURRENT(< TABLE_NAME ></pre>

Information about sequences	User_sequences	<pre> select * from sys.sequences where object_id = object_id('seq_test') SYS.Sequences Or SYS.IDENTITY COLUMNS </pre>
start value of the IDENTITY COLUMN	<pre> INSERT Test.Orders (OrderID, Name, Qty) VALUES (Seq_name.nextval,'Tire',2); Seq_name.nextval (Nextvalue) Seq_name.currval (Current Value) </pre>	<pre> INSERT Test.Orders (OrderID, Name, Qty) VALUES (NEXT VALUE FOR Test.CountBy1, 'Tire', 2) ; IDENT_SEED (< TABLE_NAME >) SELECT IDENT_SEED ('PRODUCT') SET IDENTITY_INSERT < TABLE_NAME > ON / OFF [DEFAULT IS OFF] IDENT_INCR (< TABLE_NAME >) SELECT IDENT_INCR ('PRODUCT') </pre>
incremented value of the IDENTITY COLUMN		<pre> IDENT_INCR (< TABLE_NAME >) SELECT IDENT_INCR ('PRODUCT') </pre>
To restart the sequence of Numbers for IDENTITY COLUMN	Cycle	<pre> DBCC CHECKIDENT (<TABLE_NAME>, RESEED , VALUE) DBCC CHECKIDENT ('PRODUCT', RESEED, 3) </pre>

With Clause Or CTE

Recursive Query	<pre> WITH cte(n) AS (SELECT 1 as n from dual UNION ALL SELECT n + 1 FROM cte WHERE n<10) SELECT n FROM cte </pre>	<pre> with cte as (select 1 as n union all select n=n+1 from cte where n<10) select n from cte </pre>

Pseudocolumns

Rownum	<pre> Select * from emp Where rownum<=3; </pre>	Row_number()
Rowid(To delete duplicate records)	<pre> Delete from emp Where rowid not in(select max(rowid) from tab Group by col1,col2) </pre>	<pre> delete from emp where %%physloc%% not in (select max(%%physloc%%) from emp group by empno); </pre>
Level		Recursive CTE
User	user	User
Currval		
Nextval		

Level

To display numbers from 1 to 10	<pre> Select level from dual Connect by level<=10 </pre>	
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	<pre> with cte(n) as (select 1 as n from dual union all select n+1 from cte where n<12) select n from cte </pre>	<pre> with cte as (select 1 as n union all select n=n+1 from cte where n<12) select n from cte </pre>
To display month names	<pre> with cte(n) as (select 1 as n from dual union all select n+1 from cte where n<12) select to_char(add_months(trunc(sysdate,'yy'),n-1),'month') from cte select to_char(to_date(level,'mm'),'month') from dual connect by level<=12; </pre>	<pre> with cte as (select 1 as n union all select n=n+1 from cte where n<12) select DateName(m,dateadd(m,n-1,0)) from cte </pre>
To display Day names	<pre> select to_char(trunc(sysdate,'dy')+level-1,'day') from dual connect by level<=7 with cte(n) as (select 1 as n from dual union all Select n+1 from cte where n<7) select to_char(trunc(sysdate,'dy')+n-1,'day') from cte </pre>	<pre> with cte as (select 1 as n union all Select n=n+1 from cte where n<7) Select datename(dw,dateadd(d,n-1,Datename(yy,getdate())) +'-01-01') from cte </pre>
To display multiples of 5	<pre> select level from dual where mod(level,5)=0 connect by level<=50 with cte(n) as (select 1 as n from dual union all Select n+1 from cte where n<10) Select 5*n from cte </pre>	<pre> with cte as (select 1 as n union all Select n=n+1 from cte where n<10) Select 5*n from cte </pre>
To display 'Aroha' vertically	<pre> with cte(n) as (select 1 as n from dual union all select n+1 from cte where n<length('AROHA')) select substr('AROHA',n,1) from cte </pre>	<pre> with cte as (select 1 as n union all select n=n+1 from cte where n<len('AROHA')) select substring('AROHA',n,1) from cte </pre>
To display AROHA	<pre> select substr('aroHa',1,level) from dual connect by level<=length('aroHa') </pre>	<pre> with cte as (select 1 as n union all select n=n+1 from cte where </pre>

	<pre> with cte(n) as (select 1 as n from dual union all select n+1 from cte where n<length('AROHA')) select substr ('AROHA',1,n) from cte </pre>	<pre> n<len('AROHA')) select substring ('AROHA',1,n) from cte </pre>
To display December dates	<pre> with cte(n) as (select 1 as n from dual union all Select n+1 from cte where n<31) Select (add_months(trunc(sysdate,'yy'),11))+n-1 from cte select to_date('01-dec-18')+level-1 from dual connect by level<=to_char(last_day('01- dec-18'),'dd'); </pre>	<pre> with cte as (select 1 as n union all Select n=n+1 from cte where n<31) Select dateadd(dd,n-1,dateadd(m,- 1,DateName(yy,getdate())) +'-01-01')) from cte </pre>
Delete duplicate records	Only select and no delete works here.	<pre> WITH DuplicateCTE(col1,col2,Row_num) AS (SELECT col1,col2, ROW_NUMBER()OVER(PARTITION BY col1,col2 ORDER BY col1,col2)AS Row_num FROM dup) DELETE FROM DuplicateCTE WHERE Row_num>1 </pre>

Date Queries

First day of the Current year	Trunc(sysdate,'yy')	<pre> select dateadd(dd,1- datepart(dy,getdate()),getdate()) </pre>
Last day of Current Year	Add_months(trunc(sysdate,'yy'),12)-1	<pre> select dateadd(mm,12,dateadd(d,1- datepart(dy,getdate()),getdate()))-1 </pre>
First day of the Current Month	Trunc(sysdate,'mm')	<pre> select dateadd(dd, 1- datepart(dd,getdate()),getdate()) </pre>
Last day of the Current Month	Add_months(Trunc(sysdate,'mm'),1)-1	<pre> select eomonth(getdate()) </pre>
First day of the Current Week	Trunc(sysdate,'dy')	<pre> select dateadd(d,1- datepart(dw,getdate()),getdate()) </pre>
Year day number	To_char(sysdate,'ddd')	<pre> select datepart(dy,getdate()) Or Y </pre>
Month day number	To_char(sysdate,'dd')	<pre> select datepart(dd,getdate()) Or d </pre>
Week day number	To_char(sysdate,'d')	<pre> select datepart(w,getdate()) Or dw Or weekday </pre>
Year Week Number	To_char(sysdate,'ww')	<pre> select datepart(wk,getdate()) Or week or ww </pre>

Week no of Month	To_char(sysdate,'w')	<code>select datepart(wk,getdate())- datepart(wk, dateadd(dd, 1- datepart(dd,getdate()), getdate()))+1</code>
Quarter no of current date	To_char(sysdate,'q')	<code>Select datepart(q,getdate())</code>
First day of current quarter	Trunc(sysdate,'q')	<code>select dateadd(qq,datediff(qq,0,getdate()),0)</code>
First day of the next quarter	Add_months(Trunc(sysdate,'q'),3)	<code>SELECT dateadd(qq, datediff(qq, 0, getdate()) + 1, 0)</code>
First day of the previous quarter	Add_months(Trunc(sysdate,'q'),-3)	<code>SELECT dateadd(qq, datediff(qq, 0, getdate()) - 1, 0)</code>

PLSQL/T-SQL

Data Dictionary for Subprograms:

Data Dictionary for Stored Procedures	User_procedures	Sp_Stored_procedures
Data Dictionary for Stored functions	User_procedures	
Dropping a procedure	Drop procedure <procedure_name>	<code>DROP PROC / PROCEDURE < PROCEDURE_NAME ></code>
To display list of Stored procedures	<code>select object_name from user_procedures where object_type='PROCEDURE';</code>	<code>SELECT NAME FROM SYSOBJECTS WHERE XTYPE='P'</code>
Information about a Stored procedure	<code>Select * from user_objects where object_type='PROCEDURE'</code>	<code>SP_HELP 'PROCEDURE_NAME'</code>
Text for Stored procedure	<code>Select text from user_source where name='SP_P1'</code>	<code>SP_HELPTEXT 'PROCEDURE_NAME'</code>
Text for Stored Functions	<code>Select text from user_source where name='FN_EMP'</code>	<code>SP_HELPTEXT < FUNCTION_NAME ></code>
Dropping a function	Drop function <function_name>	<code>DROP FUNCTION <FUNCTION_NAME ></code>
To display list of user created scalar functions	<code>select object_name from user_procedures where object_type='FUNCTION';</code>	<code>SELECT NAME FROM SYSOBJECTS WHERE XTYPE='FN'</code>
Information about user created function	<code>Select * from user_objects where object_type='FUNCTION'</code>	<code>SP_HELP < FUNCTION_NAME ></code>

Cursors

Creating Cursors	Declare cursor c1 is select * from emp Begin Open c1 Loop Fetch c1 into variable	<code>Declare C1 cursor for select * from emp Open c1 Fetch next from c1 into variables While @@fetch_status <>-1 Begin</code>
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	Exit when c1%notfound Dbms_output.put_line(variable); End loop; Close c; End;	Print variables Fetch next from c1 into variables End Close c1 Deallocate c1
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Procedures

Creating Procedures	Create or replace procedure sp_p1(p_no number, p_name out varchar2) as Begin Select ename into p_name from emp where empno=p_no End;	create procedure sp_p1(@p_no int,@p_name varchar(15) output) as begin select @p_name=ename from emp where empno=@p_no; end
Executing Procedures With exec command	Exec sp_p1(7788,:b_name) Print :b_name	Exec sp_p1 7788 if there is no out parameter
Executing procedures with Anonymous block	Declare V_name varchar2(20); Begin Sp_p1(7788,v_name); Dbms_output.put_line(v_name); End;	declare @name varchar(15) exec sp_p1 7788,@name output print @name
Altering the procedures		Alter procedure sp_p1 As Begin Statements End
Dropping the procedure	Drop procedure sp_p1	Drop procedure sp_p1
Procedures returning values	create or replace procedure sp_return is v_no int:=1; begin dbms_output.put_line(v_no); return; end;	create procedure sp_return(@x int,@y int)as begin declare @z int set @z=@x+@y return @z end
Executing Procedures with returning values	exec sp_return;	declare @r int exec @r=sp_return 10,20 print @r

Scalar Valued Functions which returns single value

Creating Functions	Create function fn_emp (p_no number) return number is V_cnt number(4); Begin	create function fn_emp(@p_no int) returns int as begin declare @v_cnt int select @v_cnt=count(*) from emp where deptno=@p_no
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	<pre>Select count(*) into v_cnt from emp where deptno=p_no; Return p_no; End;</pre>	<pre>return @v_cnt end;</pre>
Executing Functions using select	Select fn_emp(10) from dual	Select dbo.fn_emp(10)
Executing functions using anonymous blocks	<pre>Declare V_count number(4); Begin V_count:=fn_emp(10); Dbms_output.put_line(v_count); End;</pre>	<pre>declare @v_count int set @v_count=dbo.fn_emp(10) print @v_count</pre>
Executing using exec command	<pre>Exec :b_cnt:=fn_emp(10) Print :b_cnt</pre>	No option----

Table Valued Functions returning multiple values

Creating Functions	<pre>Create function fn_emp(p_dno number) return sys_refcursor as P_ref sys_refcursor; Begin Open p_ref for select * from emp where deptno=p_dno; Return p_ref;</pre>	<pre>create function fn_emp_table(@dno int) returns table as return(select * from emp where deptno=@dno);</pre>
Executing Functions		<pre>SELECT * FROM dbo.fn_emp_table(20)</pre>

Triggers

Creating Triggers	<pre>Create or replace trigger trig_name Before insert or update or delete on emp Begin If to_char(sysdate,'dy') in('sat','sun') or to_char(sysdate,'hh24') not between 10 and 17 then Raise_application_error(-20001,'not business hours') End if; End;</pre>	<pre>create trigger trig_emp on emp for insert,delete,update as begin if datename(dw,getdate())='sunday' or datepart(hh,getdate()) not between 10 and 17 begin rollback raiserror('Invalid Time',15,16) end end</pre>
List of triggers created in a database	Select object_name from user_objects where object_type='TRIGGER'	Select name from sysobjects where xtype='TR'
Viewing Trigger Information	User_triggers	SP_HELPTEXT<Trigger_name>
Disable/Enable the triggers	<pre>Alter table emp disable trigger trig_emp; Alter table emp disable all triggers;</pre>	Alter table emp disable/enable trigger<trig_name>
To disable Database or DML Triggers	Alter trigger trig_emp disable;	Disable/Enable trigger <trigger_name>[ALL] on database/Object_name
Dropping a Trigger	Drop trigger trig_emp	Drop trigger <trigger_name> on <database name>

Dynamic Queries

Dynamic SQL	Create or replace procedure sp_dyn(p_table_nm varchar2) as Begin Execute immediate 'select * from ' p_table_nm; End;	<pre>create procedure sp_dyn(@table_nm varchar(15)) as begin exec('select * from '+@table_nm) end exec sp_dyn emp</pre>
	Will not Support	<pre>declare @s varchar(100)='select * from emp' exec (@s)</pre>