|  |  |
| --- | --- |
| **Usage** | **Command** |
| Create Table | create table staff (  staff\_id number(4) not null,  );  Content\_Name DataType(Number) not null = Required Field |
| Drop Table | drop table “Table\_Name”;  //Double Code not needed |
| Primary key | primary key(“Content\_Name/Catgory/Field”)  //Double Code not needed |
| Foreign Key | foreign key(“field”) references category(“field”)  //own table field link to other table (“Field\_Name”) |
| Validation Rule | constraint chk\_email check (REGEXP\_LIKE(email,'^[a-zA-Z]\w+@(\S+)$'))  constraint chk\_gender check (UPPER(gender) in ('M','F'))  //Constraint Checking For Data Regulations |
| Checking Table Format | desc “Table\_Name”; |
| All Attribute and Full Table Contents | SELECT \* FROM “TABLE\_NAME”;  //Uppercase needed |
| Insert Table Data | insert into staff values(1001,'Christina','01-JAN-2011','01-JAN-1998');  insert into customer values(1004,'Mary','a123@tarc.edu.my',null,null,'F');  //null = no data available |
| Rename Field\_Name | ALTER table “TABLE\_NAME”  RENAME COLUMN “GST” to “SST”; |
| PAGESIZE  LINESIZE - Setup | Set PAGESIZE 10  SET LINESIZE 100 |
| Change Date Format  07/06/2022 | ALTER SESSION SET NLS\_DATE\_FORMAT = 'DD/MM/YYYY'; |
| Change Heading Font Style  Field Name | COLUMN “OLD NAME” HEADING “NEW NAME” |
| Format Changed | Column “Field” format $9.99 |
| Select specific field | Select “field”,”field”  From “Table\_name” |
| Order By | Order by (field) |

**Create Table**

**Data Type**

|  |  |
| --- | --- |
| Data Type | Example |
| varchar | Not constant variable or format  varchar(25) |
| number | Integers allow but not decimal  Example: number(6) |
| date | The date format for record = 13JAN2022  date |
| Number With Decimal | Integers and decimal allow  Example: number(6,2) |
| Default value | Example: (“”) varchar(200) DEFAULT ‘Empty’ |

**Heading**

1. COLUMN (Field) Headings “NewName”

**Update Data**

1. UPDATE Staff
2. Set date\_join = '25-MAR-23'
3. Where staff\_id = 1001;

**Extra Column Field**

1. alter table staff
2. add (salary number(7,2));

If Set the Default value:

1. add (salary number (7,2)default 900.00);

**Delete Column Field**

1. alter table staff
2. drop (salary);

**Insert Data**

1. Insert into Staff (staff\_id,staff\_name,birth\_date)
2. Values (1010,'John Cena','01-JAN-1978');

**Truncate**

1. COLUMN cust\_name FORMAT A15
2. COLUMN descr FORMAT A25 TRUNCATE

* No longer display after 25 character…

**Format Change**

1. Column price format $990.99

**SQL Join**

1. Select Order.OrderID,Customer.CustomerName
2. From Orders
3. INNER JOIN Customer ON Orders.CustomerID=Customer.CustomerID;

**Title**

1. TTITLE CENTER 'Customer Analysis for ' \_DATE -
2. RIGHT 'Page:' FORMAT 999 SQL.PNO SKIP 2

**Break**

1. Break on Cust\_no on cust\_name on order\_no on order\_date

**Multiple Table**

1. SELECT \*
2. From (E.Employee,S.Student)

**Like**

1. Where job\_id LIKE ‘%S’

\*Start From Alphabert S

**MIN**

1. SELECT MIN(field)
2. FROM People
3. Where (Salary >= 1500);

**MAX**

1. SELECT MAX(field)
2. FROM People
3. Where (Salary >= 1500);

**Count**

1. Select Count(City)
2. FROM People
3. Where (Country=’Malaysia’);

**Average**

1. Select AVG(Salary)
2. FROM People
3. Where (Country=’Malaysia’);

**Sum**

1. Select SUM(Salary)
2. FROM People
3. Where (Country=’Malaysia’);

**AND**

1. Select \*
2. FROM Person
3. Where (Job\_ID LIKE %S AND Student\_ID Like %P);

**OR**

1. Select \*
2. FROM Person
3. Where (Job\_ID LIKE %S OR Student\_ID Like %P);

**NOT**

1. Select \*
2. FROM Person
3. Where (Job\_ID LIKE %S NOT Student\_ID Like %P);

**Union**

1. Select Country FROM Customers
2. Union
3. Select Country From Staff
4. Order By Country;

**Distinct**

1. Select Distinct Student\_ID
2. From Student;

|  |  |
| --- | --- |
| **Like Operator** | **Description** |
| ‘a%’ | Start a |
| ‘%a’ | Last a |
| ‘%or%’ | Find ‘or’ in anyplace |
| ‘\_r%’ | Second char ‘r’ |
| ‘a\_\_\_’ | Start a with three char |
| ‘a%o’ | Start a and End o |