Assignment – 5 Mandatory:

Create the **Store** table as per specification below.

Column Name	DataType and Size	Constraints	DESCRIPTION
Name	VARCHAR2(20)	PRIMARY KEY	Unique name of the store. For ex. WalMart, Big Bazar
Location	VARCHAR2(30)	NOT NULL	Location of the store. For ex. Dallas
ManagerName	VARCHAR2(30)	UNIQUE	Manager's name of the store

```
CREATE TABLE Store (
   Name       VARCHAR2(20) PRIMARY KEY,
   Location   VARCHAR2(30) NOT NULL,
   ManagerName VARCHAR2(30) UNIQUE
)
```

Query Result

NAME	Null?	TYPE
NAME	NOT NULL	VARCHAR2(20)
LOCATION	NOT NULL	VARCHAR2(30)
MANAGERNAME		VARCHAR2(30)

Table created.

Congratulations !!! Your query is correct.

Assignment – 6 Mandatory:

Modify the column Name in **Store** table to StoreName.

Column Name	DataType and Size	Constraints	DESCRIPTION
Name	VARCHAR2(20)	PRIMARY KEY	Unique name of the store. For ex. WalMart, Big Bazar
Location	VARCHAR2(30)	NOT NULL	Location of the store. For ex. Dallas
ManagerName	VARCHAR2(30)	UNIQUE	Manager's name of the store

```
ALTER TABLE Store RENAME COLUMN Name TO StoreName;
```

Query Result

NAME	Null?	TYPE
STORENAME	NOT NULL	VARCHAR2(20)
LOCATION	NOT NULL	VARCHAR2(30)
MANAGERNAME		VARCHAR2(30)

Table altered.

Congratulations !!! Your query is correct.

Assignment – 7 Mandatory:

Create the **Bill** table as per specification below.

Column Name	DataType and Size	Constraints	DESCRIPTION
BillNo	NUMBER	PRIMARY KEY	Unique id of the bill. For ex. 5001, 5005
StoreName	VARCHAR2(20)	FOREIGN KEY	Existing StoreName in Store table
Shopperid	NUMBER	FOREIGN KEY	Existing ShopperId in Shopper table
ArCode	CHAR(5)	FOREIGN KEY	Article purchased by the shopper. Existing ArCode in Article table
Amount	NUMBER		Bill amount. For ex. 350.0
BillDate	DATE		Date of billing
Quantity	NUMBER(4)	Should be > 0 and Default value is 1	Quantity of the article purchased. For ex. 45

```
CREATE TABLE Bill (
    BillNo      NUMBER          PRIMARY KEY,
    StoreName   VARCHAR2(20)    REFERENCES Store(StoreName),
    Shopperid   NUMBER          REFERENCES Shopper(ShopperId),
    ArCode      CHAR(5)         REFERENCES Article(ArCode),
    Amount      NUMBER,
    BillDate    DATE,
    Quantity    NUMBER(4)       DEFAULT 1,
```

CHECK(Quantity > 0)

)

Query Result

NAME	Null?	TYPE
BILLNO	NOT NULL	NUMBER
STORENAME		VARCHAR2(20)
SHOPPERID		NUMBER
ARCODE		CHAR(5)
AMOUNT		NUMBER
BILLDATE		DATE
QUANTITY		NUMBER(4)

Table created.

Congratulations !!! Your query is correct.

Assignment – 8 Mandatory:

Create the **Supplier** table based on the specification below.

Column Name	DataType	Constraints	DESCRIPTION
Supplierid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the supplier
Name	VARCHAR2(30)		Name of the supplier
ContactNo	VARCHAR2(15)	NOT NULL	Contact number of the Supplier
Emailid	VARCHAR2(30)		Email Id of the supplier

CREATE TABLE Supplier (

Supplierid VARCHAR2(6) PRIMARY KEY,

Name VARCHAR2(30),

ContactNo VARCHAR2(15) NOT NULL,

Emailid VARCHAR2(30)

)

Query Result

NAME	Null?	TYPE
SUPPLIERID	NOT NULL	VARCHAR2(6)
NAME		VARCHAR2(30)
CONTACTNO	NOT NULL	VARCHAR2(15)
EMAILID		VARCHAR2(30)

Table created.

Congratulations !!! Your query is correct.

Assignment – 9 Mandatory:

Modify the **Supplier** table to store the supplier city. The column name should be **City** and it can have maximum of 10 characters.

Column Name	DataType	Constraints	DESCRIPTION
Supplierid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the supplier
Name	VARCHAR2(30)		Name of the supplier
ContactNo	VARCHAR2(15)		Contact number of the Supplier
Emailid	VARCHAR2(30)		Email Id of the supplier

ALTER TABLE Supplier ADD City VARCHAR2(10);

Query Result

NAME	Null?	TYPE
SUPPLIERID	NOT NULL	VARCHAR2(6)
NAME		VARCHAR2(30)
CONTACTNO	NOT NULL	VARCHAR2(15)
EMAILID		VARCHAR2(30)
CITY		VARCHAR2(10)

Table altered.

Congratulations !!! Your query is correct.

Assignment – 10 Mandatory:

Remove the Emailid column from **Supplier** table

Column Name	DataType	Constraints	DESCRIPTION
Supplierid	VARCHAR2(6)	PRIMARY KEY	Unique Id of the supplier
Name	VARCHAR2(30)		Name of the supplier
ContactNo	VARCHAR2(15)		Contact number of the Supplier
Emailid	VARCHAR2(30)		Email Id of the supplier

ALTER TABLE Supplier DROP COLUMN Emailid;

Query Result

NAME	Null?	TYPE
SUPPLIERID	NOT NULL	VARCHAR2(6)
NAME		VARCHAR2(30)
CONTACTNO	NOT NULL	VARCHAR2(15)

Table altered.

Congratulations !!! Your query is correct.

Assignment – 11 Optional:

Create the **City** table as per the specification.

Column Name	DataType	Constraints	DESCRIPTION
City	VARCHAR2(20)	UNIQUE	City Name

CREATE TABLE City (

City VARCHAR2(20) UNIQUE

)

Query Result

NAME	Null?	TYPE
CITY		VARCHAR2(20)

Table created.

Congratulations !!! Your query is correct.

Assignment – 12 Optional:

Drop the column city from the **City** table.

Column Name	DataType	Constraints	DESCRIPTION
City	VARCHAR2(20)	UNIQUE	City Name

ALTER TABLE City DROP COLUMN City;

Query Result

ORA-12983: cannot drop all columns in a table

Congratulations !!! Your query is correct.

Assignment – 13 Optional:

Create the **Address** table as per specification below:

Column Name	DataType	Constraints		DESCRIPTION
HouseNo	NUMBER	PRIMARY KEY		Unique address identifier
Street	VARCHAR2(30)			
city	VARCHAR2(20)		Foreign Key	Existing City present in City table
zip	NUMBER(6)		Should be >= 0	Zip code of the city
state	VARCHAR2(5)			

```
CREATE TABLE Address (
   HouseNo          NUMBER,
   Street           VARCHAR2(30),
   city             VARCHAR2(20)          REFERENCES City(City),
   PRIMARY KEY (HouseNo, Street, city),
   zip              NUMBER(6)             CHECK(zip >= 0),
   state            VARCHAR2(5)
)
```

Query Result

ORA-00942: table or view does not exist

Congratulations !!! Your query is correct.

Assignment – 14 Optional:

Modify the size of state column in **Address** table from 5 to 20.

Column Name	DataType	Constraints		DESCRIPTION
HouseNo	NUMBER	PRIMARY KEY		Unique address identifier
Street	VARCHAR2(30)			
city	VARCHAR2(20)		Foreign Key	Existing City present in City table
zip	NUMBER(6)	None	Should be >= 0	Zip code of the city
state	VARCHAR2(5)			

```
ALTER TABLE Address MODIFY state VARCHAR2(20);
```

Query Result

ORA-00942: table or view does not exist

Congratulations !!! Your query is correct.

Assignment – 17 Mandatory:

Insert the following data into **Store** table created on Day 2.

StoreName	Location	ManagerName
Loyal World	Infy Campus, Mysore	Rohan Kumar

INSERT INTO Store (StoreName, Location, ManagerName) VALUES('Loyal World', 'Infy Campus, Mysore', 'Rohan Kumar');

Query Result

STORENAME	LOCATION	MANAGERNAME
Loyal World	Infy Campus, Mysore	Rohan Kumar

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 18 Mandatory:

Insert the following data into **Bill** table created on Day 2.

	BillNo	StoreName	Shopperid	ArCode	Amount	BillDate	Quantity
Valid data	1001	Loyal World	101	A1001	1000	20-OCT-15	2
Invalid data	1002	Loyal World	101	A1002	1000	15-NOV-15	10

INSERT INTO Bill (BillNo, StoreName, Shopperid, ArCode, Amount, BillDate, Quantity) VALUES (1001, 'Loyal World', 101, 'A1001', 1000, '20-OCT-15', 2);

Query Result

BILLNO	STORENAME	SHOPPERID	ARCODE	AMOUNT	BILLDATE	QUANTITY
1001	Loyal World	101	A1001	1000	20-Oct-15	2

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 19 Mandatory:

Insert the following data into **Supplier** table created on Day 2.

Supplierid	Name	ContactNo	City
S501	Avaya Ltd	9012345678	Mysore

INSERT INTO Supplier (Supplierid, Name, ContactNo, City) VALUES ('S501', 'Avaya Ltd', 9012345678, 'Mysore');

Query Result

SUPPLIERID	NAME	CONTACTNO	CITY
S501	Avaya Ltd	9012345678	Mysore

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 25 Mandatory:

Retrieve the itemcode, descr and unit price of the items which have 'Shirt' or 'Skirt' in their desc and their category is 'B'.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Itemcode, Descr, Price FROM Item WHERE (Descr LIKE '%Shirt%' OR Descr LIKE '%Skirt%') AND (Category = 'B');

Query Result

ITEMCODE	DESCR	PRICE
I1004	Lee T-Shirt	300
I1005	Levis T-Shirt	1700

2 row(s) selected

Expected Result

ITEMCODE	DESCR	PRICE
I1004	Lee T-Shirt	300
I1005	Levis T-Shirt	1700

Congratulations !!! Your query is correct.

Assignment – 26 Mandatory:

Retrieve the designation and salary of employees without any duplication of data.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT DISTINCT Designation, Salary FROM Empdetails;

Query Result

DESIGNATION	SALARY
Administrator	6000
Manager	5000
Manager	6500
Billing Staff	3000
Super Manager	9000
Billing Staff	2800
Billing Staff	2500
Billing Staff	5000
Billing Staff	2900
Security	2000

10 row(s) selected

Expected Result

DESIGNATION	SALARY
Administrator	6000
Manager	5000
Manager	6500
Billing Staff	3000
Super Manager	9000
Billing Staff	2800
Billing Staff	2500
Billing Staff	5000
Billing Staff	2900
Security	2000

Congratulations !!! Your query is correct.

Assignment – 27 Mandatory:

Retrieve itemcode, description and price for all items.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Itemcode, Descr, Price FROM Item;

Query Result

ITEMCODE	DESCR	PRICE
I1001	Britannia Marie Gold Cookies	20
I1002	Best Rice	120
I1003	Modern Bread	15
I1004	Lee T-Shirt	300
I1005	Levis T-Shirt	1700
I1006	Satyapaul Sari	7300
I1007	Allen Solly Tie	600
I1008	Xbox gamepad	1500
I1009	Microsoft Mouse	700
I1010	Intel C2D Processor	6500
I1011	Intel Motherboard	5000
I1012	500GB Hard disk	2500
I1013	320GB Hard disk	1800
I1014	Aroma Bread	17
I1015	Arrow Jeans	7300

15 row(s) selected

Expected Result

ITEMCODE	DESCR	PRICE
I1001	Britannia Marie Gold Cookies	20
I1002	Best Rice	120
I1003	Modern Bread	15
I1004	Lee T-Shirt	300
I1005	Levis T-Shirt	1700
I1006	Satyapaul Sari	7300
I1007	Allen Solly Tie	600
I1008	Xbox gamepad	1500
I1009	Microsoft Mouse	700
I1010	Intel C2D Processor	6500
I1011	Intel Motherboard	5000
I1012	500GB Hard disk	2500
I1013	320GB Hard disk	1800
I1014	Aroma Bread	17
I1015	Arrow Jeans	7300

Congratulations !!! Your query is correct.

Assignment – 28 Mandatory:

Retrieve the quotation id and sname of the quotations which have been either 'Accepted' or 'Rejected'.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Quotationid, Sname FROM Quotation WHERE Qstatus IN ('Accepted', 'Rejected');

Query Result

QUOTATIONID	SNAME
Q1001	Giant Store
Q1003	EBATs
Q1004	Shop Zilla
Q1005	Giant Store
Q1007	Shop Zilla
Q1008	Shop Zilla
Q1009	Shop Zilla
Q1010	Giant Store
Q1011	EBATs
Q1012	VV Electronics
Q1013	Giant Store

11 row(s) selected

Expected Result

QUOTATIONID	SNAME
Q1001	Giant Store
Q1003	EBATs
Q1004	Shop Zilla
Q1005	Giant Store
Q1007	Shop Zilla
Q1008	Shop Zilla
Q1009	Shop Zilla
Q1010	Giant Store
Q1011	EBATs
Q1012	VV Electronics
Q1013	Giant Store

Congratulations !!! Your query is correct.

Assignment – 29 Mandatory:

Retrieve item id, item description and price for items whose names have 'r' as the second character.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Itemcode, Descr, Price FROM Item WHERE Descr LIKE '_r%';

Query Result

ITEMCODE	DESCR	PRICE
I1001	Britannia Marie Gold Cookies	20
I1014	Aroma Bread	17
I1015	Arrow Jeans	7300

3 row(s) selected

Expected Result

ITEMCODE	DESCR	PRICE
I1001	Britannia Marie Gold Cookies	20
I1014	Aroma Bread	17
I1015	Arrow Jeans	7300

Congratulations !!! Your query is correct.

Assignment – 30 Mandatory:

Retrieve the different item types.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT DISTINCT Itemtype FROM Item;

Query Result

ITEMTYPE
FMCG
Apparels
Computer

3 row(s) selected

Expected Result

ITEMTYPE
FMCG
Apparels
Computer

Congratulations !!! Your query is correct.

Assignment – 31 Mandatory:

Retrieve the order details like orderid, quotationid, status, pymtdate for those orders where payments are not received.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Orderid, Quotationid, Status, Pymtdate FROM Orders WHERE Pymtdate IS NULL;
```

Query Result

ORDERID	QUOTATIONID	STATUS	PYMTDATE
O1002	Q1006	Ordered	NULL
O1007	Q1009	Ordered	NULL
O1008	Q1013	Ordered	NULL

3 row(s) selected

Expected Result

ORDERID	QUOTATIONID	STATUS	PYMTDATE
O1002	Q1006	Ordered	NULL
O1007	Q1009	Ordered	NULL
O1008	Q1013	Ordered	NULL

Congratulations !!! Your query is correct.

Assignment – 32 Mandatory:

Retrieve the different item types and category of the items.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT DISTINCT Itemtype, Category FROM Item;
```

Query Result

ITEMTYPE	CATEGORY
Computer	C
Computer	A
Computer	B
Apparels	B
Apparels	C
FMCG	C
Apparels	A

7 row(s) selected

Expected Result

ITEMTYPE	CATEGORY
Computer	C
Computer	A
Computer	B
Apparels	B
Apparels	C
FMCG	C
Apparels	A

Congratulations !!! Your query is correct.

Assignment – 33 Mandatory:

The management wants to increase salary of all employees by 10%. Write a query to display empid, current salary, increased salary and incremented amount.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Empid, Salary "Current Salary", Salary*1.1 "New Salary", Salary*0.1 "Incremented Amount" FROM Empdetails;

Query Result

EMPID	Current Salary	New Salary	Incremented Amount
1001	6000	6600	600
1002	6500	7150	650
1003	3000	3300	300
1004	9000	9900	900
1005	6000	6600	600
1006	6500	7150	650
1007	3000	3300	300
1008	5000	5500	500
1009	5000	5500	500
1010	2800	3080	280
1011	2900	3190	290
1012	2500	2750	250
1013	2000	2200	200
1014	2000	2200	200

14 row(s) selected

Expected Result

EMPID	Current Salary	New Salary	Incremented Amount
1001	6000	6600	600
1002	6500	7150	650
1003	3000	3300	300
1004	9000	9900	900
1005	6000	6600	600
1006	6500	7150	650
1007	3000	3300	300
1008	5000	5500	500
1009	5000	5500	500
1010	2800	3080	280
1011	2900	3190	290
1012	2500	2750	250
1013	2000	2200	200
1014	2000	2200	200

Congratulations !!! Your query is correct.

Assignment – 34 Mandatory:

Insert the following data into **City** table.

City
Mysore

INSERT INTO City (City) VALUES ('Mysore');

Query Result

CITY
Mysore

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 35 Optional:

Insert the following data into **Address** table.

HouseNo	Street	city	zip	state
350	Electronics City	Mysore	570018	Karnataka

INSERT INTO Address (HouseNo, Street, city, zip, state) VALUES (350, 'Electronics City', 'Mysore', 570018, 'Karnataka');

Query Result

HOUSENO	STREET	CITY	ZIP	STATE
350	Electronics City	Mysore	570018	Karnataka

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 36 Optional:

Insert the following data into **Article** table created on Day 2.

ArCode	ArName	Rate	Quantity	Class
A1002	Keyboard	1000	10	B

INSERT INTO Article (ArCode, ArName, Rate, Quantity, Class) VALUES ('A1002', 'Keyboard', 1000, 10, 'B');

Query Result

ARCODE	ARNAME	RATE	QUANTITY	CLASS
A1002	Keyboard	1000	10	B

1 row(s) created.

Congratulations !!! Your query is correct.

Assignment – 37 Optional:

Retrieve quotationid, qdate and quotedprice for quotations that are quoted in 1400 to 2150 range (not inclusive of these values).

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Quotationid, Qdate, Quotedprice FrOM Quotation WHERE Quotedprice > 1400 AND Quotedprice < 2150;

Query Result

QUOTATIONID	QDATE	QUOTEDPRICE
Q1001	15-Oct-14	1500
Q1009	15-Jun-15	1480
Q1010	15-Jun-15	1490

3 row(s) selected

Expected Result

QUOTATIONID	QDATE	QUOTEDPRICE
Q1001	15-Oct-14	1500
Q1009	15-Jun-15	1480
Q1010	15-Jun-15	1490

Congratulations !!! Your query is correct.

Assignment – 38 Optional:

Retrieve the itemtype, descr and unit price of those items whose price is more than 4000.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Itemtype, Descr, Price FROM Item WHERE Price > 4000;
```

Query Result

ITEMTYPE	DESCR	PRICE
Apparels	Satyapaul Sari	7300
Computer	Intel C2D Processor	6500
Computer	Intel Motherboard	5000
Apparels	Arrow Jeans	7300

4 row(s) selected

Expected Result

ITEMTYPE	DESCR	PRICE
Apparels	Satyapaul Sari	7300
Computer	Intel C2D Processor	6500
Computer	Intel Motherboard	5000
Apparels	Arrow Jeans	7300

Congratulations !!! Your query is correct.

Assignment – 39 Optional:

Retrieve the designation and salary of all 'Manager' and 'Billing Staff' who have salary in the range of 2500 to 5000 (both inclusive).

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Designation, Salary FROM Empdetails WHERE Designation IN ('Manager', 'Billing Staff') AND Salary BETWEEN 2500 AND 5000;
```

Query Result

DESIGNATION	SALARY
Billing Staff	3000
Billing Staff	3000
Manager	5000
Billing Staff	5000
Billing Staff	2800
Billing Staff	2900
Billing Staff	2500

7 row(s) selected

Expected Result

DESIGNATION	SALARY
Billing Staff	3000
Billing Staff	3000
Manager	5000
Billing Staff	5000
Billing Staff	2800
Billing Staff	2900
Billing Staff	2500

Congratulations !!! Your query is correct.

Assignment – 51 Mandatory:

Salary hikes are being given to all employees of EasyShop based on their role. The percentage increase is as given below. Write a query to display EmpId, EmpName, Salary and increased salary.

Designation(Role)	Hike in %
Administrator	10
Manager	5
Billing Staff	20
Security	25
Others	2

```
SELECT Empid, Empname, Salary,
CASE Designation
    WHEN 'Administrator' THEN Salary*1.1
    WHEN 'Manager' THEN Salary*1.05
    WHEN 'Billing Staff' THEN Salary*1.2
    WHEN 'Security' THEN Salary*1.25
    ELSE Salary*1.02
```

END Increasedsalary

FROM Empdetails;

Query Result

EMPID	EMPNAME	SALARY	INCREASEDSALAR
1001	George	6000	6600
1002	Kevin	6500	6825
1003	Lisa	3000	3600
1004	Allen	9000	9180
1005	Peter	6000	6600
1006	John	6500	6825
1007	Sam	3000	3600
1008	Megan	5000	5250
1009	Henry	5000	6000
1010	Cris	2800	3360
1011	Donald	2900	3480
1012	Edwin	2500	3000
1013	Clara	2000	2500
1014	Michael	2000	2500

14 row(s) selected

Expected Result

EMPID	EMPNAME	SALARY	INCREASEDSALAR
1001	George	6000	6600
1002	Kevin	6500	6825
1003	Lisa	3000	3600
1004	Allen	9000	9180
1005	Peter	6000	6600
1006	John	6500	6825
1007	Sam	3000	3600
1008	Megan	5000	5250
1009	Henry	5000	6000
1010	Cris	2800	3360
1011	Donald	2900	3480
1012	Edwin	2500	3000
1013	Clara	2000	2500
1014	Michael	2000	2500

Congratulations !!! Your query is correct.

Assignment – 52 Mandatory:

The management of EasyShop would like to classify the salary of employees as Class 3, Class 2 and Class 1. The classification is done as if salary is less than 2500 then the class is 'Class 3' , if between 2500 and 5000 then 'Class 2', and if salary is more than 5000 then 'Class 1'. Write a query to display EmpId, Salary and classification of salary.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Empid, Salary,
CASE
   WHEN Salary < 2500 THEN 'Class 3'
   WHEN Salary BETWEEN 2500 AND 5000 THEN 'Class 2'
   ELSE 'Class 1'
END Salgrade
FROM Empdetails;
```

Query Result

EMPID	SALARY	SALGRADE
1001	6000	Class 1
1002	6500	Class 1
1003	3000	Class 2
1004	9000	Class 1
1005	6000	Class 1
1006	6500	Class 1
1007	3000	Class 2
1008	5000	Class 2
1009	5000	Class 2
1010	2800	Class 2
1011	2900	Class 2
1012	2500	Class 2

Expected Result

EMPID	SALARY	SALGRADE
1001	6000	Class 1
1002	6500	Class 1
1003	3000	Class 2
1004	9000	Class 1
1005	6000	Class 1
1006	6500	Class 1
1007	3000	Class 2
1008	5000	Class 2
1009	5000	Class 2
1010	2800	Class 2
1011	2900	Class 2
1012	2500	Class 2

1013	2000	Class 3
1014	2000	Class 3

14 row(s) selected

1013	2000	Class 3
1014	2000	Class 3

Congratulations !!! Your query is correct.

Assignment – 53 Mandatory:

For a discount of 25.5% being offered on all FMCG item's unit price, display item code, existing unit price as "Old Price" and discounted price as "New Price ". Round off the discounted price to two decimal values.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Itemcode, Price "Old Price", ROUND(Price*0.745, 2) "New Price" FROM Item WHERE Itemtype = 'FMCG';
```

Query Result

ITEMCODE	Old Price	New Price
I1001	20	14.9
I1002	120	89.4
I1003	15	11.18
I1014	17	12.67

4 row(s) selected

Expected Result

ITEMCODE	Old Price	New Price
I1001	20	14.9
I1002	120	89.4
I1003	15	11.18
I1014	17	12.67

Congratulations !!! Your query is correct.

Assignment – 54 Mandatory:

Retrieve the employee id, employee name of billing staff and the retail outlet where they work. Perform a case insensitive search.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Empid, Empname, Worksin FROM Empdetails WHERE Designation LIKE '%Billing Staff%';
```

Query Result

EMPID	EMPNAME	WORKSIN
1003	Lisa	R1001
1007	Sam	R1002
1009	Henry	R1002
1010	Cris	R1001
1011	Donald	R1001
1012	Edwin	R1002

6 row(s) selected

Expected Result

EMPID	EMPNAME	WORKSIN
1003	Lisa	R1001
1007	Sam	R1002
1009	Henry	R1002
1010	Cris	R1001
1011	Donald	R1001
1012	Edwin	R1002

Congratulations !!! Your query is correct.

Assignment – 56 Mandatory:

Retrieve the description of items which have more than 15 characters.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT Descr FROM Item WHERE LENGTH(Descr) > 15;
```

Query Result

DESCR
Britannia Marie Gold Cookies
Intel C2D Processor
Intel Motherboard

3 row(s) selected

Expected Result

DESCR
Britannia Marie Gold Cookies
Intel C2D Processor
Intel Motherboard

Congratulations !!! Your query is correct.

Assignment – 57 Mandatory:

Display numeric part of retail outlet id

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT SUBSTR(Roid,2) Numericroid FROM Retailoutlet;
```

Query Result

NUMERICROID
1001
1002
1003

3 row(s) selected

Expected Result

NUMERICROID
1001
1002
1003

Congratulations !!! Your query is correct.

Assignment – 58 Mandatory:

Display current date as 'Mon/DD/YYYY Day'

SELECT CONCAT(CONCAT(TO_CHAR(SYSDATE, 'Mon/DD/YYYY'), ' '), TO_CHAR(SYSDATE, 'Day')) Currentdate FROM DUAL;

Query Result

CURRENTDATE
Sep/10/2021 Friday

1 row(s) selected

Expected Result

CURRENTDATE
Sep/10/2021 Friday

Congratulations !!! Your query is correct.

Assignment – 60 Optional:

Retrieve the order id and the number of days between order date and payment date for all orders. The number of days should be displayed as positive values.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Orderid, CEIL(MONTHS_BETWEEN(Pymtdate, Orderdate)*30) Noofdays FROM Orders;

Query Result

ORDERID	NOOFDAYS
O1001	6
O1002	NULL
O1003	3
O1004	10
O1005	2
O1006	2
O1007	NULL
O1008	NULL

8 row(s) selected

Expected Result

ORDERID	NOOFDAYS
O1001	6
O1002	NULL
O1003	3
O1004	10
O1005	2
O1006	2
O1007	NULL
O1008	NULL

Congratulations !!! Your query is correct.

Assignment – 61 Optional:

Retrieve the total number of different item types available.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT COUNT(DISTINCT Itemtype) Noofitemtypes FROM Item;

Query Result

NOOFITEMTYPES
3

1 row(s) selected

Expected Result

NOOFITEMTYPES
3

Congratulations !!! Your query is correct.

Assignment – 64 Optional:

Retrieve the total number of items available in warehouse.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT COUNT(DISTINCT Itemcode) Noofitems FROM Item;

Query Result

NOOFITEMS
15

1 row(s) selected

Expected Result

NOOFITEMS
15

Congratulations !!! Your query is correct.

Assignment – 65 Optional:

Retrieve the order id and the number of months between order date and payment date for all orders.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

SELECT Orderid, MONTHS_BETWEEN(Orderdate, Pymtdate) "No of Months" FROM Orders;

Query Result

ORDERID	No of Months
O1001	-0.193548387096774193548387096774193
O1002	NULL
O1003	-0.096774193548387096774193548387096
O1004	-0.322580645161290322580645161290322
O1005	-0.064516129032258064516129032258064
O1006	-0.064516129032258064516129032258064
O1007	NULL
O1008	NULL

8 row(s) selected

Expected Result

ORDERID	No of Months
O1001	-0.193548387096774193548387096774193
O1002	NULL
O1003	-0.096774193548387096774193548387096
O1004	-0.322580645161290322580645161290322
O1005	-0.064516129032258064516129032258064
O1006	-0.064516129032258064516129032258064
O1007	NULL
O1008	NULL

Congratulations !!! Your query is correct.

Assignment – 66 Optional:

Find the total quoted price as "TotalPrice" for accepted quotations in the month of June.

Database structure

Item (Itemcode, Itemtype, Descr, Price, Reorderlevel, Qtyonhand, Category)

Quotation (Quotationid, Sname, Itemcode, Quotedprice, Qdate, Qstatus)

Orders (Orderid, Quotationid, Qtyordered, Orderdate, Status, Pymtdate, Delivereddate, Amountpaid, Pymtmode)

Retailoutlet (Roid, Location, Managerid)

Empdetails (Empid, Empname, Designation, Emailid, Contactno, Worksin, Salary)

Retailstock (Roid, Itemcode, Unitprice, Qtyavailable)

Customer (Custid, Custtype, Custname, Gender, Spouse, Emailid, Address)

Purchasebill (Billid, Roid, Itemcode, Custid, Billamount, Billdate, Quantity)

```
SELECT SUM(Quotedprice) Totalprice FROM Quotation WHERE Qstatus = 'Accepted' AND
TO_CHAR(Qdate, 'Mon') = 'Jun';
```

Query Result

TOTALPRICE
3630

1 row(s) selected

Expected Result

TOTALPRICE
3630

Congratulations !!! Your query is correct.