SQL FUNCTIONS

QUERIES

Q.1 Table : STUDENT

RollNo	Name	Class	DOB	Gender	City	Marks
1	Nanda	X	06-06-1995	M	Agra	551
2	Saurabh	XII	07-05-1993	M	Mumbai	462
3	Sanal	XI	06-05-1994	F	Delhi	400
4	Trisla	XII	08-08-1995	F	Mumbai	450
5	Store	XII	08-10-1995	M	Delhi	369
6	Marisla	XI	12-12-1994	F	Dubai	250
7	Neha	X	08-12-1995	F	Moscow	377
8	Nishant	X	12-06-1995	M	Moscow	489

(i) SELECT COUNT(*) FROM STUDENT;

Ans. 8

(ii) SELECT MAX(DOB),MIN(DOB) FROM STUDENT;

Ans. MAX(DOB) MIN(DOB)

08-12-1995 07-05-1993

(iii) SELECT MAX(Marks) FROM STUDENT;

Ana 551

(IV) SELECT COUNT(CITY) WHERE GENDER='F';

Ans 3

(V) SELECT NAME FROM STUDENT WHERE MARKS=(SELECT MAX(MARKS) FROM STUDENT);

Ans. Nanda

(VI) SELECT YEAR(DOB) FROM STUDENT;

Ans.1995

1993….. years of all records will be displayed

b.

Table : Furniture

FCODE	NAME	PRCIE	MANUFDATE	WCODE
10023	Coffee table	4000	19-DEC-2016	W03
10001	Dining table	20500	12-JAN-2017	W01
10012	Sofa	35000	06-JUN-2016	W02
10024	Chair	2500	07-APR-2017	W03
10090	Cabinet	18000	31-MAR-2015	W02

i. To display WCODE of Furniture Items. There should be no duplicate values.

Ans. SELECT DISTINCT(WCODE) FROM Furniture;

ii. To display the average PRICE of all the Furniture Items, which are made of Wood with WCODE as W02

Ans. SELECT AVG(PRICE) FROM Furniture WHERE WCODE = 'W02';

iii. find the output of following queries

a. SELECT SUM(PRICE) FROM Furniture WHERE WCODE='W03';
   Ans. = 6500
b. SELECT COUNT(DISTINCT PRICE) FROM Furniture;
   Ans. = 5

iv. Display the sum of price where year of manufdate is 2016

Ans. SELECT SUM(PRICE) FROM FURNITURE WHERE YEAR(MANUFDATE)=2016;

v. Display the list of furniture where day of manufdate is between 5 to 15

Ans. SELECT * FROM FURNITURE WHERE DAY(MANUFDATE) IS BETWEEN 5 AND 15

C. Table: Infant

ItemCode	Item	DatePurchase	UnitPrice	Discount
101	Frock	2016-01-23	700	10
102	Cot	2015-09-23	5000	25
103	Soft Toy	2016-06-17	800	10
104	Baby Socks	2014-10-16	100	7
105	Baby Suit	2015-09-20	500	5

i. To display the number of items that have more than 10% as discount

Ans. SELECT COUNT(Item) FROM Infant
WHERE Discount > 10;

ii. To display the highest unit price of items.

Ans. SELECT MAX(UnitPrice) FROM Infant;

iii. Find the output of query

a. SELECT MID(Item,1,2) FROM Infant;

Ans.

MID(Item,1,2)
Fr
Co
So
Ba
Ba

b. SELECT AVG(UnitPrice) FROM Infant WHERE DATEPURCHASE >'2015-01-01';

Ans. 1750.0

d. **Table: GARMENT**

G CODE	G NAME	SIZE	COLOUR	PRICE
111	T Shirt	XL	Red	1400.00
112	Jeans	L	Blue	1600.00
113	Skirt	M	Black	1100.00
114	Ladies Jacket	XL	Blue	4000.00
115	Trousers	L	Brown	1500.00
116	Ladies Toop	L	Pink	1200.00

i. Find the output of following queries

a. SELECT COUNT(DISTINCT (SIZE)) FROM GARMENT;

Ans. 3

b. SELECT AVG (PRICE) FROM GARMENT;

Ans. 1800

ii. Display the list of garments where L is in size

Ans. SELECT * FROM GARMENT WHERE INSTR(SIZE,'L')>0

iii. Display the list of garments where garment name with more than one word

Ans. SELECT * FROM GARMENT WHERE INSTR(GNAME,' ')>0

iv. Display the sum of price where size is XL

Ans. SELECT SUM(PRICE) FROM GARMENT WHERE SIZE='XL';

v. Display garment name with price(without precision/mantissa)

Ans. SELECT GNAME,ROUND(PRINCE,0) FROM GARMENT

vi. Display the average of price of large size garments

Ans. SELECT AVG(PRICE) FROM GARMENT WHERE SIZE='L';