M.K.INSITITUTE OF COMPUTER STUDIES, BHARUCH
CONCEPTS OF RDBMS

FYBCA-II SEM

PRACTICAL ASSIGNMENT-1

Q 1. Write SQL statements to create tables with appropriate constraints:

Students(rollno, name, dateofbirth)

Subjects(subjectcode, subjectname)

Result(rollno, subjectcode, marks)

1. Display total number of students who passed in subject “DBMS” .
2. To add a column “class” in table students.
3. To display name of students who failed in subject “advanced c programming”.
4. To display student wise total number of marks scored.
5. To display roll number of all the students who appeared in exam for the subject “IC”.
6. Get the details from Students whose birthday comes on last date of month.

Q 2. Write SQL statements to create tables with appropriate constraints:

Account-master(act_no, custname, address, act_type, open_date, balance)

Account_transaction(trans_id, trans_type, trans_date, act_no, trans_amt)

Constraits:

- Primary key and foreign key must be declared at table level only

- Act_type must be “saving” or “current”.
- Trans_type must be “deposite” or “withdrawal”.

Solve the following queries:

1. Display customers who opened account before 1st january 2020.
2. Display customers who are having account in the bank for about more than 20 years.
3. Display only withdrawal transactions for the month of dec. 2014 of cutomer having current account.
4. Debit 2000 from the customer account who has not done any transaction since 3 years.
5. Display total number of saving and current accounts.
6. Raise the balance of all customers by 2% of customers who opened account in January 2015.

Q.3 Create following tables

Billmaster(billno, custno, billdate, billamt, discount)

Customer(custno , custname, custaddress)

(1) Apply appropriate constraint on the tables

(2) Insert at least 5 records

Do as directed

1. Display the details of the customer “Ramniklall”.
2. Name the customer who have not visited the shop in last one week.
3. Display total amount and discount given to “Shailesh” during current month.
4. Display the bill details of customer “Nilesh”.
5. Count total no of customer till now.

6. Display the entire customer whose name is starting with ‘M’.
7. Display the detail of bill no 456.
8. Display the billno, custno,billamt of all bills generated on 10-Jan-2014.
9. Count total number of transactions of each month of 2012.

Q4. Consider following tables and solve below queries:

salesmansalesman_id | name | city | commission
customer(customer_id | cust_name | city | grade | salesman_id
orders(ord_no purch_amt ord_date customer_id salesman_id)

1. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.

2. Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders which order amount between 500 and 2000.

3. Write a SQL statement to know which salesman are working for which customer.

4. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who gets a commission from the company is more than 12%.

5. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in the same city where their customer lives, and gets a commission is above 12% .

6. Write a SQL statement to make a list in ascending order for the customer who works either through a salesman or by own.

7. Write a SQL statement to make a list in ascending order for the customer who holds a grade less than 300 and works either through a salesman or by own.

8. Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order

date to find that either any of the existing customers have placed no order or placed one or more orders.

9. Write a SQL statement to make a list in ascending order for the salesmen who works either for one or more customer or not yet join under any of the customers.

10. Write a SQL statement to make a report with customer name, city, order no. order date, purchase amount for those customers from the existing list who placed one or more orders or which order(s) have been placed by the customer who is not on the list.

11. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa.

12. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa for those salesmen who must belong a city which is not the same as his customer and the customers should have an own grade.