**Name of Project : Computer Hardware Management System**

* **Team Strength** : 4
* **Team members** :1) Vinod Ishwar Patil (1140)

2) Varad Suhas Vaidya (1150)

3) Samrat Rajkumar Aher (1101)

4) Amit Omprakash Charkha (1109)

* **Project Guide** : Darshana Yadav

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**Project Scope**

This project will help the user to maintain the inventory of computer hardware for its company. User can get the data easily and can get information of any project easily.

Customer will request for product to company employee. The Employee will check the availability of the product requested by the customer. If the requested product is available, then the details of the product are given to customer (type, price, model). If customer wants to buy the product, he will request for the product. Employee will make an entry in the database about the quantity of a specific product and will reduce the stock of an particular product.

If a user wants to get information of particular product, a user will use the product number and will get the information of product. If a particular product is running out of stock which will be known to the user by the project features like recorder level and danger level. And through this the user can make an order to supplier. The project also helps the user to modify the data related to that particular product in the system. **Project Requirements**

**Hardware:**

**RAM :** 256 MB,

**CPU :** P4 and further series.

**Input Device:** Keyboard, Mouse,

**Hard disk :** 40 GB.

**Software:** Oracle 8i/9i/10i,

**OS :**Windows XP

**Entity Relationship Diagram**

1

1

M

M

M

1

M

M

M

M

M

Ordered

Product

Customer

Contain

M

Ask for

Supp

Refer

M

Stock

Supplier

Quotation

1

Gives

Employee

Generate

Invoice

**Normalization**

**Un-normalized data:**

|  |  |
| --- | --- |
| **Attributes** | **Description** |
| Cust\_Id | Customer ID |
| Cust\_Name | Customer Name |
| Cust\_Addr | Customer Address |
| Cust\_Mobno | Customer Mobile Number |
| Cust\_Email | Customer Email |
| Emp\_Id | Employee ID |
| Emp\_Name | Employee Name |
| Emp\_Desg | Employee Designation |
| Emp\_Dept | Employee Department |
| Emp\_Mobno | Employee Mobile Number |
| Emp\_Addr | Employee Address |
| Emp\_Email | Employee Email ID |
| Emp\_Salary | Employee Salary |
| Supplier\_Id | Supplier ID |
| Supplier\_Name | Supplier Name |
| Supplier\_Addr | Supplier Address |
| Supplier\_Mobno | Supplier Mobile Number |
| Supplier\_Email | Supplier Email |
| Inv\_No | Invoice Number |
| Inv\_Date | Invoice Date |
| Quantity | Quantity of the item |
| Totamt | Total Amount |
| Prod\_Id | Product ID |
| Prod\_Name | Product Name |
| Price | Product Price |
| Q\_No | Quotation Number |
| Q\_Date | Quotation Date |
| Q\_Particular | Quotation Particular |
| Quatntity | Quantity |

**1NF**

All fields in records should be atomic and single value and there are no repeating groups of items. A table in 1NF is

1. All key attributes are indentified
2. There are no repeating groups

|  |  |
| --- | --- |
| **Non-Repeating Attributes** | **Constraint** |
| Cust\_Id | Primary Key |
| Cust\_Name |  |
| Cust\_Addr |  |
| Cust\_Mobno |  |
| Cust\_Email |  |
| Emp\_Id | Primary Key |
| Emp\_Name |  |
| Emp\_Desg |  |
| Emp\_Dept |  |
| Emp\_Mobno |  |
| Emp\_Addr |  |
| Emp\_Email |  |
| Emp\_Salary |  |
| Inv\_No | Primary Key |
| Inv\_Date |  |
| Quantity |  |
| Totamt |  |
| Q\_No | Primary Key |
| Q\_Date |  |
| Q\_Particular |  |
| Quatntity |  |

|  |  |
| --- | --- |
| **Repeating Attributes** | **Constraint** |
| Supplier\_Id | Primary Key |
| Supplier\_Name |  |
| Supplier\_Addr |  |
| Supplier\_Mobno |  |
| Supplier\_Email |  |
| Prod\_Id | Primary Key |
| Prod\_Name |  |
| Price |  |

**2NF**

All non-key attributes should be fully functionally depended on entire primary key

**Customer Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Cust\_Id | Primary Key |
| Cust\_Name |  |
| Cust\_Addr |  |
| Cust\_Mobno |  |
| Cust\_Email |  |

**Employee Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Emp\_Id | Primary Key |
| Emp\_Name |  |
| Emp\_Desg |  |
| Emp\_Dept |  |
| Emp\_Mobno |  |
| Emp\_Addr |  |
| Emp\_Email |  |
| Emp\_Salary |  |

**Invoice Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Inv\_No | Primary Key |
| Inv\_Date |  |
| Quantity |  |
| Totamt |  |

**Quotation Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Q\_No | Primary Key |
| Q\_Date |  |
| Q\_Particular |  |
| Quatntity |  |

**Supplier Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Supplier\_Id | Primary Key |
| Supplier\_Name |  |
| Supplier\_Addr |  |
| Supplier\_Mobno |  |
| Supplier\_Email |  |

**Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Prod\_Id | Primary Key |
| Prod\_Name |  |
| Price |  |

**Customer\_Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Cust\_Id | Foreign Key |
| Prod\_Id | Foreign Key |

**Supplier\_Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Supplier\_Id | Foreign Key |
| Prod\_Id | Foreign Key |

**3NF**

No non-key attributes should determine other non-key attributes

**Customer Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Cust\_Id | Primary Key |
| Cust\_Name |  |
| Cust\_Addr |  |
| Cust\_Mobno |  |
| Cust\_Email |  |

**Employee Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Emp\_Id | Primary Key |
| Emp\_Name |  |
| Emp\_Desg |  |
| Emp\_Dept |  |
| Emp\_Mobno |  |
| Emp\_Addr |  |
| Emp\_Email |  |
| Emp\_Salary |  |

**Invoice Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Inv\_No | Primary Key |
| Inv\_Date |  |
| Quantity |  |
| Totamt |  |

**Quotation Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Q\_No | Primary Key |
| Q\_Date |  |
| Q\_Particular |  |

**Supplier Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Supplier\_Id | Primary Key |
| Supplier\_Name |  |
| Supplier\_Addr |  |
| Supplier\_Mobno |  |
| Supplier\_Email |  |

**Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Prod\_Id | Primary Key |
| Prod\_Name |  |
| Quantity |  |
| Price |  |

**Customer\_Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Cust\_Id | Foreign Key |
| Prod\_Id | Foreign Key |

**Supplier\_Product Table:**

|  |  |
| --- | --- |
| **Field Name** | **Constraint** |
| Supplier\_Id | Foreign Key |
| Prod\_Id | Foreign Key |

**Table Design**

**Customer Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Cust\_Id | VARCHAR2 | 5 | Primary Key | Customer ID |
| Cust\_Name | VARCHAR2 | 20 |  | Customer Name |
| Cust\_Addr | VARCHAR2 | 50 |  | Customer Address |
| Cust\_Mobno | NUMBER | 10 |  | Customer Mobile Number |
| Cust\_Email | VARCHAR2 | 30 |  | Customer Email |

**Employee Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Emp\_Id | VARCHAR2 | 5 | Primary Key | Employee ID |
| Emp\_Name | VARCHAR2 | 20 |  | Employee Name |
| Emp\_Desg | VARCHAR2 | 20 |  | Employee Designation |
| Emp\_Dept | VARCHAR2 | 20 |  | Employee Department |
| Emp\_Mobno | NUMBER | 10 |  | Employee Mobile Number |
| Emp\_Addr | VARCHAR2 | 50 |  | Employee Address |
| Emp\_Email | VARCHAR2 | 30 |  | Employee Email ID |
| Emp\_Salary | NUMBER | 8,2 |  | Employee Salary |

**Invoice Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Inv\_No | VARCHAR2 | 10 | Primary Key | Invoice Number |
| Inv\_Date | DATE |  |  | Invoice Date |
| Quantity | NUMBER | 5 |  | Quantity of the item |
| Totamt | NUMBER | 8,2 |  | Total Amount |

**Quotation Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Q\_No | VARCHAR2 | 10 | Primary Key | Quotation Number |
| Q\_Date | DATE |  |  | Quotation Date |
| Q\_Particular | VARCHAR2 | 20 |  | Quotation Particular |

**Supplier Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Supplier\_Id | VARCHAR2 | 10 | Primary Key | Supplier ID |
| Supplier\_Name | VARCHAR2 | 10 |  | Supplier Name |
| Supplier\_Addr | VARCHAR2 | 10 |  | Supplier Address |
| Supplier\_Mobno | VARCHAR2 | 10 |  | Supplier Mobile Number |
| Supplier\_Email | VARCHAR2 | 10 |  | Supplier Email |

**Product Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Prod\_Id | VARCHAR2 | 5 | Primary Key | Product ID |
| Prod\_Name | VARCHAR2 | 20 |  | Product Name |
| Quantity | VARCHAR2 | 20 |  | Quantity of the item |
| Price | NUMBER | 8,2 |  | Product Price |

**Customer\_Product Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Cust\_Id | VARCHAR2 | 5 | Foreign Key | Customer ID |
| Prod\_Id | VARCHAR2 | 5 | Foreign Key | Product ID |

**Supplier\_Product Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data type** | **Size** | **Constraint** | **Description** |
| Supplier\_Id | VARCHAR2 | 10 | Foreign Key | Supplier ID |
| Prod\_Id | VARCHAR2 | 5 | Foreign Key | Product ID |

**Queries**

1) Creation of customer table

SQL> create table customer40

2 (cust\_id varchar2(5) primary key,

3 cust\_name varchar2(20),

4 cust\_addr varchar2(50),

5 cust\_mobno Number(10),

6 cust\_email varchar2(30));

Table created.

-------------------------------------------------------------------

2) Creation of Product table

SQL> create table product40

2 (prod\_id varchar2(10) primary key,

3 prod\_name varchar2(20),

4 price Number(8,2));

Table created.

--------------------------------------------------------------------

3) Creation of Quotation table

SQL> create table quotation40

2 (Q\_no varchar2(10) primary key,

3 Q\_date DATE,

4 Q\_particular varchar2(20));

Table created.

----------------------------------------------------------------

4) Creation of Supplier table

SQL> create table supplier40

2 (supplier\_id varchar2(5) primary key,

3 supplier\_name varchar2(20),

4 supplier\_addr varchar2(50),

5 supplier\_mobno Number( 6 supplier\_email varchar2(30));

Table created.

-----------------------------------------------------------

5) Creation of Employee Table.

SQL> create table emp40

2 (emp\_id varchar2(5) primary key,

3 emp\_name varchar2(20),

4 emp\_desg varchar2(20),

5 emp\_dept varchar2(20),

6 emp\_mobno Number(10),

7 emp\_addr varchar2(50),

8 emp\_email varchar2(30));

Table created.

------------------------------------------------

6) Creation of Stock table.

SQL> create table stock

2 (quatntity Number(10));

Table created.

-------------------------------------------------------------

7) Creation of Invoice table.

SQL> create table invoice

2 (inv\_no varchar2(10) primary key,

3 inv\_date DATE,

4 quantity Number(5),

5 totamt Number(8,2));

Table created.

------------------------------------------------------------

8) Creation of customer and product third table.

SQL> create table cust\_prod

2 (cust\_id varchar2(5) references customer40,

3 prod\_id varchar2(5) references product40);

Table created.

---------------------------------------------------------------------

9) Creation of supplier and product third table.

SQL> create table supp\_prod

2 (supp\_id varchar2(5) references supplier40,

3 prod\_id varchar2(5) references product40);

Table created.

Quotaiton Record

SQL> insert into quatation40 values('&Q\_no','&Q\_date','&particular');

Enter value for q\_no: Q101

Enter value for q\_date: 2-Feb-2012

Enter value for particular: mouse

old 1: insert into quotation values(&Q\_no,'&Q\_date','&particular')

new 1: insert into quotation values(101,'2-Feb-2012','mouse')

1 row created.

SQL> insert into quotation values(&Q\_no,'&Q\_date','&particular');

Enter value for q\_no: Q102

Enter value for q\_date: 30-Mar-2012

Enter value for particular: Keyboard

old 1: insert into quotation values(&Q\_no,'&Q\_date','&particular')

new 1: insert into quotation values(102,'30-Mar-2012','Keyboard')

1 row created.

SQL> /

Enter value for q\_no: Q103

Enter value for q\_date: 30-Mar-2012

Enter value for particular: Computer

old 1: insert into quotation values(&Q\_no,'&Q\_date','&particular')

new 1: insert into quotation values(103,'30-Mar-2012','Computer')

1 row created.

SQL> /

Enter value for q\_no: Q104

Enter value for q\_date: 31-Mar-2012

Enter value for particular: Laptop

old 1: insert into quotation values(&Q\_no,'&Q\_date','&particular')

new 1: insert into quotation values(104,'31-Mar-2012','Laptop')

1 row created.

----------------------------------------------------------------------------------------------------------

Customer Records

SQL> insert into customer40 values('&cust\_id','&cust\_name','&cust\_addr',&cust\_mobno,'&cust\_email')

SQL> /

Enter value for cust\_id: C1001

Enter value for cust\_name: Akshay Dake

Enter value for cust\_addr: Kasba Peth

Enter value for cust\_mobno: 8983313182

Enter value for cust\_email: akshay.dake@gmail.com

old 1: insert into cust40 values(&cust\_id,'&cust\_name','&cust\_addr',&cust\_mobno,'&cust\_email')

new 1: insert into cust40 values(1001,'Akshay Dake','Kasba Peth',8983313182,'akshay.dake@gmail.com

1 row created.

SQL> /

Enter value for cust\_id: C1002

Enter value for cust\_name: Vinod Patil

Enter value for cust\_addr: Somwar Peth

Enter value for cust\_mobno: 956111523

Enter value for cust\_email: vip@gmail.com

old 1: insert into cust40 values(&cust\_id,'&cust\_name','&cust\_addr',&cust\_mobno,'&cust\_email')

new 1: insert into cust40 values(1002,'Vinod Patil','Somwar Peth',956111523,'vip@gmail.com')

1 row created.

SQL> /

Enter value for cust\_id: C1003

Enter value for cust\_name: Nachiket Shaha

Enter value for cust\_addr: Somwar Peth

Enter value for cust\_mobno: 8087954122

Enter value for cust\_email: nachiket.shaha@gmail.com

old 1: insert into cust40 values(&cust\_id,'&cust\_name','&cust\_addr',&cust\_mobno,'&cust\_email')

new 1: insert into cust40 values(1003,'Nachiket Shaha','Somwar Peth',808795412,'nachiket.shaha@gmail.com

1 row created.

SQL> /

Enter value for cust\_id: C1004

Enter value for cust\_name: Nilesh Jagtap

Enter value for cust\_addr: Shukrwar Peth

Enter value for cust\_mobno: 902834321

Enter value for cust\_email: nilljagtap@gmail.com

old 1: insert into cust40 values(&cust\_id,'&cust\_name','&cust\_addr',&cust\_mobno,'&cust\_email')

new 1: insert into cust40 values(1004,'Nilesh Jagtap','Shukrwar Peth',902834321,'nilljagtap@gmail.

1 row created.

----------------------------------------------------------------------------------------------------------

Supplier Records

SQL> insert into supplier40 values('&supplier\_id','&supplier\_name','&supplier\_addr',&supplier\_mobno,'&suppleir\_email');

Enter value for supplier\_id: S3001

Enter value for supplier\_name: Data Corporation

Enter value for supplier\_addr: Deccan, Pune

Enter value for supplier\_mobno: 9881301273

Enter value for suppleir\_email: info@dccdeccan.com

old 1: insert into supplier values(&supplier\_id,'&supplier\_name','&supplier\_addr',&supplier\_mobno,

new 1: insert into supplier values(3001,'Data Corporation','Deccan, Pune',9881301273,'info@dccdecc

1 row created.

SQL> /

Enter value for supplier\_id: E3002

Enter value for supplier\_name: Aditi Enterprizes

Enter value for supplier\_addr: Shaniwar Peth

Enter value for supplier\_mobno: 9028547410

Enter value for suppleir\_email: aditi@gmail.com

old 1: insert into supplier values(&supplier\_id,'&supplier\_name','&supplier\_addr',&supplier\_mobno,

new 1: insert into supplier values(3002,'Aditi Enterprizes','Shaniwar Peth',9028547410,'aditi@gmai

1 row created.

SQL> /

Enter value for supplier\_id: S3003

Enter value for supplier\_name: TechMax Technologies

Enter value for supplier\_addr: Sadashiv Peth

Enter value for supplier\_mobno: 8087812354

Enter value for suppleir\_email: techmax@vsnl.co.in

old 1: insert into supplier values(&supplier\_id,'&supplier\_name','&supplier\_addr',&supplier\_mobno,

new 1: insert into supplier values(3003,'TechMax Technologies','Sadashiv Peth',8087812354,'techmax

1 row created.

SQL> /

Enter value for supplier\_id: S3004

Enter value for supplier\_name: Yahoo Tech

Enter value for supplier\_addr: Prabhat Road, Deccan

Enter value for supplier\_mobno: 9154789521

Enter value for suppleir\_email: yahoo@yahoo.co.in

old 1: insert into supplier values(&supplier\_id,'&supplier\_name','&supplier\_addr',&supplier\_mobno,

new 1: insert into supplier values(3004,'Yahoo Tech','Prabhat Road, Deccan',9154789521,'yahoo@yaho

1 row created.

SQL> /

Enter value for supplier\_id: S3005

Enter value for supplier\_name: Datalink Corporation

Enter value for supplier\_addr: Hadpasar

Enter value for supplier\_mobno: 8085412151

Enter value for suppleir\_email: datalink@gmail.com

old 1: insert into supplier values(&supplier\_id,'&supplier\_name','&supplier\_addr',&supplier\_mobno,

new 1: insert into supplier values(3005,'Datalink Corporation','Hadpasar',8085412151,'datalink@gma

1 row created.

----------------------------------------------------------------------------------------------------------------------

Employee Records

SQL> / insert into emp40 values('&emp\_no','&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr','&emp\_email');

Enter value for emp\_id: E111

Enter value for emp\_name: Amit Charkha

Enter value for emp\_desg: Accountant

Enter value for emp\_dept: Account

Enter value for emp\_mobno: 9595274856

Enter value for emp\_addr: Kolhapur

Enter value for emp\_email: amit@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(111,'Amit Charkha','Accountant','Account',9595274856,'Kolhapur','a

1 row created.

SQL> /

Enter value for emp\_no: E112

Enter value for emp\_name: Vinod Patil

Enter value for emp\_desg: Manager

Enter value for emp\_dept: Marketing

Enter value for emp\_mobno: 9556115642

Enter value for emp\_addr: Pune

Enter value for emp\_email: vip@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(112,'Vinod Patil','Manager','Marketing',9556115642,'Pune','vip@gma

1 row created.

SQL> /

Enter value for emp\_no: E113

Enter value for emp\_name: Pravin Dhontula

Enter value for emp\_desg: Salesman

Enter value for emp\_dept: sales

Enter value for emp\_mobno: 8859874555

Enter value for emp\_addr: Baramati

Enter value for emp\_email: pravin@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(113,'Pravin Dhontula','Salesman','sales',8859874555,'Baramati','pr

1 row created.

SQL> /

Enter value for emp\_no: 114

Enter value for emp\_name: Varad Vaidya

Enter value for emp\_desg: Officeboy

Enter value for emp\_dept: Administrator

Enter value for emp\_mobno: 9988556644

Enter value for emp\_addr: Alibuag

Enter value for emp\_email: imofficeboy@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(114,'Varad Vaidya','Officeboy','Administrator',9988556644,'Alibuag

1 row created.

SQL> /

Enter value for emp\_no: E115

Enter value for emp\_name: Sanket Burse

Enter value for emp\_desg: Salesman

Enter value for emp\_dept: sales

Enter value for emp\_mobno: 9858548855

Enter value for emp\_addr: Goa

Enter value for emp\_email: burse@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(115,'Sanket Burse','Salesman','sales',9858548855,'Goa','burse@gmai

1 row created.

SQL> /

Enter value for emp\_no: E116

Enter value for emp\_name: Samrat Ahir

Enter value for emp\_desg: Salesman

Enter value for emp\_dept: sales

Enter value for emp\_mobno: 9789456655

Enter value for emp\_addr: Amravti

Enter value for emp\_email: Thuksamrat@gmail.com

old 1: insert into emp40 values(&emp\_no,'&emp\_name','&emp\_desg','&emp\_dept',&emp\_mobno,'&emp\_addr'

new 1: insert into emp40 values(116,'Samrat Ahir','Salesman','sales',9789456655,'Amravti','Thuksam

1 row created.

---------------------------------------------------------------------------------------------------------

Invoice Record

SQL> insert into invoice values('&inv\_no','&inv\_date',&quantity,&totamt);

Enter value for inv\_no: I1

Enter value for inv\_date: 2-Feb-2012

Enter value for quantity: 2

Enter value for totamt: 500

old 1: insert into invoice values('&inv\_no','&inv\_date',&quantity,&totamt)

new 1: insert into invoice values('I1','2-Feb-2012',2,500)

1 row created.

-----------------------------------------------------------------------------------------------------------

Quotation Records

SQL> insert into stock values(&quatntity);

Enter value for quatntity: 50

old 1: insert into stock values(&quatntity)

new 1: insert into stock values(50)

1 row created.

----------------------------------------------------------------------------------------------------------

Product Records

SQL> insert into product40 values('&prod\_id','&prod\_name',&price);

Enter value for prod\_id: P201

Enter value for prod\_name: Keyboard

Enter value for price: 500

old 1: insert into product40 values('&prod\_id','&prod\_name',&price)

new 1: insert into product40 values('P201','Keyboard',500)

1 row created.

SQL> /

Enter value for prod\_id: P202

Enter value for prod\_name: Mouse

Enter value for price: 200

old 1: insert into product40 values('&prod\_id','&prod\_name',&price)

new 1: insert into product40 values('P202','Mouse',200)

1 row created.

SQL> /

Enter value for prod\_id: P203

Enter value for prod\_name: Monitor

Enter value for price: 2000

old 1: insert into product40 values('&prod\_id','&prod\_name',&price)

new 1: insert into product40 values('P203','Monitor',2000)

1 row created.

SQL> /

Enter value for prod\_id: P204

Enter value for prod\_name: LCD

Enter value for price: 8000

old 1: insert into product40 values('&prod\_id','&prod\_name',&price)

new 1: insert into product40 values('P204','LCD',8000)

1 row created.

SQL>

Enter value for prod\_id: P205

Enter value for prod\_name: Laptop

Enter value for price: 32000

old 1: insert into product40 values('&prod\_id','&prod\_name',&price)

new 1: insert into product40 values('P205','Laptop',32000)

1 row created.

----------------------------------------------------------------------------------------------------------

cust\_prod table created.

SQL> insert into cust\_prod values('&cust\_id','&prod\_id');

Enter value for cust\_id: C1001

Enter value for prod\_id: P201

old 1: insert into cust\_prod values('&cust\_id','&prod\_id')

new 1: insert into cust\_prod values('C1001','P201')

1 row created.

SQL> /

Enter value for cust\_id: C1002

Enter value for prod\_id: P202

old 1: insert into cust\_prod values('&cust\_id','&prod\_id')

new 1: insert into cust\_prod values('C1002','P202')

1 row created.

SQL> /

Enter value for cust\_id: C1003

Enter value for prod\_id: P203

old 1: insert into cust\_prod values('&cust\_id','&prod\_id')

new 1: insert into cust\_prod values('C1003','P203')

1 row created.

------------------------------------------------------------------------------------------------------

Supp\_Prod Records

SQL> insert into supp\_prod values('&supp\_id','&prod\_id');

Enter value for supp\_id: S3001

Enter value for prod\_id: P201

old 1: insert into supp\_prod values('&supp\_id','&prod\_id')

new 1: insert into supp\_prod values('S3001','P201')

1 row created.

SQL> /

Enter value for supp\_id: S3002

Enter value for prod\_id: P202

old 1: insert into supp\_prod values('&supp\_id','&prod\_id')

new 1: insert into supp\_prod values('S3002','P202')

1 row created.

1) Q - updated salary.

SQL> update emp40 set emp\_salary = 5000 where emp\_id='E111';

2 )

select cust\_id, cust\_name from customer40 group by cust\_id, cust\_name

3) find the employee name whos salary is > than 5000.

SQL> select emp\_name from emp40 where emp\_salary>5000;

4) find the employee name whos salary is > than 5000 between 10000.

SQL> select emp\_name from emp40 where emp\_salary>5000 AND emp\_salary<10000;

5)

SQL> select emp\_name from emp40 where emp\_salary>5000 AND emp\_salary<=10000;

6) find the employee name whose salary < 5000.

SQL> select emp\_name from emp40 where emp\_salary<5000;

7) find the customer name and address whose name start from letter N.

SQL> select cust\_name, cust\_addr from customer40 where cust\_name like'N%';

8) find the Maximum salary and Minimum salary from employee table.

SQL> select max(emp\_salary), min(emp\_salary) from emp40;

9) find the product name whose price between 2000 to 35000.

SQL> select prod\_name from product40 where price>2000 AND price<35000;

10) find the supplier name, supplier mob no whose address is shaniwar peth.

SQL> select supplier\_name,supplier\_mobno from supplier40 where supplier\_addr='Shaniwar Peth';

11)Update salary for every employee by 5% who belong to marketing department.

ans:update Emp set salary = salary + (salary\*0.05)

where dept='marketing';

12)List departmentwise list

ANs:select empname,dept from Emp order by dept;

13)find out the supplier name whose address is 'hadapsar' or ' sadashive peth'.

ans:

SQL> select supplier\_name from supplier40 where supplier\_addr = 'Hadpasar' OR supplier\_addr = 'Sadas

hiv Peth';

14) find the employee whose salary is between 5000 to 50000.

SQL> select emp\_name from emp40 where emp\_salary>5000 AND emp\_salary<=50000;

15) find average.

SQL> select AVG(emp\_salary) "Average Salary" from emp40;

16) Count the no. of records.

SQL> select COUNT(\*) "No. of Records" from supplier40;

17) calculate the sum of employee salary.

SQL> select SUM(emp\_salary) "Total Salary" from emp40;

18) Find the length of employee name.

SQL> select LENGTH(emp\_name) "Length" from emp40;

19) find the length of employee name(Vinod Patil).

SQL> select LENGTH(emp\_name) "Length" from emp40 where emp\_name = 'Vinod Patil';

20) find the date 15 days after todays's date.

SQL> select sysdate+15 from dual;

21)

SQL> select rownum,supplier\_id from supplier40 where rownum<4;

22)

SQL> select min(rowid) from emp40 group by emp\_id,emp\_name,emp\_dept;

23) select all the tab.

SQL> select \*from tab;

24) find the customer name who purchase the keyboard.

select customer name who has purchased keyboard.

SQL> select cust\_name from customer40 c, product40 p, cust\_prod cp where p.prod\_id = cp.prod\_id AND

c.cust\_id = cp.cust\_id AND prod\_name='Keyboard';

25)

SQL> select prod\_name, sum(price) from product40 group by prod\_name having sum(price) > 1500;

26) find date between '2-feb-12' and '3-mar-12'.

select \* from Quot

where Q\_date between '2-feb-12' and '3-mar-12';

Q\_NO Q\_DATE Q\_PARTICULAR CUST\_ID

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101 02-FEB-12 mouse 1002

102 03-MAR-12 mouse 1003

105 28-FEB-12 keybord 1005

26) Display the use of Rpadding on prod\_name in product table

select rpad(prod\_name,30,'.') from product40;

RPAD(PROD\_NAME,30,'.')

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keybord.......................

LCD...........................

27)

35)Display the use of Lpadding on cust\_name in customer

select lpad(cust\_name,20,'.') from Cust;

LPAD(CUST\_NAME,20,'.')

.........Akshay Dake

.......Akshay Upadhe

.........vinod patil

..........kedar kale

........sanket burse

28) Display the list in uppercase from customer table

select upper(cust\_name) from Cust;

UPPER(CUST\_NAME)

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AKSHAY DAKE

AKSHAY UPADHE

VINOD PATIL

KEDAR KALE

SANKET BURSE

29) Combine and display two columns using “UNION”

select cust\_name from customer40

union

select prod\_name from product40;

CUST\_NAME

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Akshay Dake

LCD

Vinod Patil

Keybord

30) Use decode function for decoding the customer name

select decode(cust\_name,'Akshay Dake','AD','Akshay Upadhe','AU',

'vinod patil','VP','sanket burse','SB')cust\_addr,cust\_mobno,cust\_email

from Cust;

CUST\_NAME CUST\_MOBNO CUST\_EMAIL

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AD 8989898989 akshay@gmail.com

AU 8989899989 akshay@gmail.com

VP 9889899989 vip@gmail.com

KK 9089899989 KK@yahoo.com

SB 9089899000 [appa@yahoo.com](mailto:appa@yahoo.com)

31) display supplier name from supplier by using substr function

select substr (supplier\_name,3) from supplier40;

SUBSTR(SUPPLIER\_NAME,3)

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ta Corporation

iti Enterprizes

ch Max

32) list cust\_name by using cast from the customer.

select cust\_name,cast(cust\_id as integer) int\_cust\_id from Cust;

CUST\_NAME INT\_CUST\_ID

Akshay Dake 1001

Akshay Upadhe 1002

vinod patil 1003

kedar kale 1004

sanket burse 1005

33) Display price and prod name by using round function.

select prod\_name,round(price,1)price from product40;

PROD\_NAME PRICE

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keybord 500

LCD 8000

34) Display unique particulars from quotation;

Ans:select unique Q\_particular from quot;

Q\_PARTICULAR

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keybord

mouse

35) display the list of product name with price in decending order.

select prod\_name,price

from product40 order by price desc;

PROD\_NAME PRICE

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LCD 8000

keybord 500

36) Find prod name and price and supplier name is 'Tech max'

select prod\_name,price from

supplier40 s,product40 p,supp\_prod sp

where p.prod\_id=sp.prod\_id

and s.supplier\_id=sp.supp\_id

and supplier\_name='Tech Max';

PROD\_NAME PRICE

--------- -----

LCD 8000

37) Find address of supplier and product name is 'keybord'

select supplier\_addr from

supplier40 s,product40 p,supp\_prod sp

where p.prod\_id=sp.prod\_id

and s.supplier\_id=sp.supp\_id

and prod\_name='keybord';

SUPPLIER\_ADDR

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Deccan,pune

38) Find the name os supplier who sell 'LCD'

select supplier\_name from

supplier40 s,product40 p,supp\_prod sp

where s.supplier\_id=sp.supp\_id

and p.prod\_id=sp.prod\_id

and prod\_name='LCD';

SUPPLIER\_NAME

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Aditi Enterprizes

Tech Max

39)

23) Find name and price where supplier is 'Data Corporation'

select prod\_name , price from

supplier40 s,product40 p,supp\_prod sp

where s.supplier\_id=sp.supp\_id

and p.prod\_id=sp.prod\_id

and supplier\_name='Data Corporation';

PROD\_NAME PRICE

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keybord 500

40) Find product name whoes customer adderess is 'somwarpeth'

select prod\_name from customer40 c,product40 p,cust\_prod cp

where p.prod\_id=cp.prod\_id

and c.cust\_id=cp.cust\_id

and cust\_addr='Somwar Peth';

PROD\_NAME

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LCD