Consider the following tables STORE and SUPPLIERS and answer the questions.

#### **TABLE: STORE**

Number of Records: 7

| ITEMNO | ITEM              | SCODE | QTY | RATE | LASTBUY    |
|--------|-------------------|-------|-----|------|------------|
| 2005   | SHARPENER CLASSIC | 23    | 60  | 8    | 2009-06-31 |
| 2003   | BALL PEN 0.25     | 22    | 50  | 25   | 2010-02-01 |
| 2002   | GEL PEN PREMIUM   | 21    | 150 | 12   | 2010-02-24 |
| 2006   | GEL PEN CLASSIC   | 21    | 250 | 20   | 2009-03-11 |
| 2001   | ERASER SMALL      | 22    | 220 | 6    | 2009-01-19 |
| 2004   | ERASER BIG        | 22    | 110 | 8    | 2009-12-02 |
| 2009   | BALL PEN 0.5      | 21    | 180 | 18   | 2009-11-03 |

#### **TABLE: SUPPLIERS**

| SCODE | SNAME              |
|-------|--------------------|
| 21    | PREMIUM STATIONERS |
| 23    | SOFT PLASTICS      |
| 22    | TETRA SUPPLY       |

- i) To display the details of all the items in the Store table in ascending order of LastBuy.
- ii) To display the ItemNo and Item name of those items from Store table whose Rate is more than 15 Rupees.
- iii) To display the details of those items whose Suppliers code is 22 or Quantity in Store is more than 110 from the table Store.
- iv) To display the minimum rate of items for each supplier individually as per SCode from the table store.

#### **STORE**

CREATE TABLE STORE (ITEMNO INTEGER NOT NULL PRIMARY KEY, ITEM VARCHAR(50) NOT NULL, SCODE INTEGER, QTY INTEGER, RATE INTEGER, LASTBUY DATETIME);

INSERT INTO STORE VALUES (2005, 'SHARPENER CLASSIC', 23, 60, 8, '2009-06-31'); INSERT INTO STORE VALUES (2003, 'BALL PEN 0.25', 22, 50, 25, '2010-02-01'); INSERT INTO STORE VALUES (2002, 'GEL PEN PREMIUM', 21, 150, 12, '2010-02-24'); INSERT INTO STORE VALUES (2006, 'GEL PEN CLASSIC', 21, 250, 20, '2009-03-11'); INSERT INTO STORE VALUES (2001, 'ERASER SMALL', 22, 220, 6, '2009-01-19'); INSERT INTO STORE VALUES (2004, 'ERASER BIG', 22, 110, 8, '2009-12-02'); INSERT INTO STORE VALUES (2009, 'BALL PEN 0.5', 21, 180, 18, '2009-11-03');

#### Number of Records: 7

| ITEMNO | ITEM              | SCODE | QTY | RATE | LASTBUY    |
|--------|-------------------|-------|-----|------|------------|
| 2005   | SHARPENER CLASSIC | 23    | 60  | 8    | 2009-06-31 |
| 2003   | BALL PEN 0.25     | 22    | 50  | 25   | 2010-02-01 |
| 2002   | GEL PEN PREMIUM   | 21    | 150 | 12   | 2010-02-24 |
| 2006   | GEL PEN CLASSIC   | 21    | 250 | 20   | 2009-03-11 |
| 2001   | ERASER SMALL      | 22    | 220 | 6    | 2009-01-19 |
| 2004   | ERASER BIG        | 22    | 110 | 8    | 2009-12-02 |
| 2009   | BALL PEN 0.5      | 21    | 180 | 18   | 2009-11-03 |

#### **SUPPLIERS**

CREATE TABLE SUPPLIERS (SCODE INTEGER NOT NULL, SNAME CHAR(20) NOT NULL);

INSERT INTO SUPPLIERS VALUES (21, 'PREMIUM STATIONERS'); INSERT INTO SUPPLIERS VALUES (23, 'SOFT PLASTICS'); INSERT INTO SUPPLIERS VALUES (22, 'TETRA SUPPLY');

| SCODE | SNAME              |
|-------|--------------------|
| 21    | PREMIUM STATIONERS |
| 23    | SOFT PLASTICS      |
| 22    | TETRA SUPPLY       |

## i) SELECT \* FROM STORE ORDER BY LASTBUY ASC;

Number of Records: 7

| ITEMNO | ITEM              | SCODE | QTY | RATE | LASTBUY    |
|--------|-------------------|-------|-----|------|------------|
| 2001   | ERASER SMALL      | 22    | 220 | 6    | 2009-01-19 |
| 2006   | GEL PEN CLASSIC   | 21    | 250 | 20   | 2009-03-11 |
| 2005   | SHARPENER CLASSIC | 23    | 60  | 8    | 2009-06-31 |
| 2009   | BALL PEN 0.5      | 21    | 180 | 18   | 2009-11-03 |
| 2004   | ERASER BIG        | 22    | 110 | 8    | 2009-12-02 |
| 2003   | BALL PEN 0.25     | 22    | 50  | 25   | 2010-02-01 |
| 2002   | GEL PEN PREMIUM   | 21    | 150 | 12   | 2010-02-24 |

## ii) SELECT ITEMNO, ITEM FROM STORE WHERE RATE>15;

Number of Records: 3

| ITEMNO | ITEM            |  |
|--------|-----------------|--|
| 2003   | BALL PEN 0.25   |  |
| 2006   | GEL PEN CLASSIC |  |
| 2009   | BALL PEN 0.5    |  |

## iii) SELECT \* FROM STORE WHERE SCODE=22 OR QTY>110;

| ITEMNO | ITEM            | SCODE | QTY | RATE | LASTBUY    |
|--------|-----------------|-------|-----|------|------------|
| 2003   | BALL PEN 0.25   | 22    | 50  | 25   | 2010-02-01 |
| 2002   | GEL PEN PREMIUM | 21    | 150 | 12   | 2010-02-24 |
| 2006   | GEL PEN CLASSIC | 21    | 250 | 20   | 2009-03-11 |
| 2001   | ERASER SMALL    | 22    | 220 | 6    | 2009-01-19 |
| 2004   | ERASER BIG      | 22    | 110 | 8    | 2009-12-02 |
| 2009   | BALL PEN 0.5    | 21    | 180 | 18   | 2009-11-03 |

## iv) SELECT ITEM, SUPPLIERS.SCODE, SNAME, MIN(RATE) FROM STORE, SUPPLIERS WHERE SUPPLIERS.SCODE=STORE.SCODE GROUP BY STORE.SCODE;

| ITEM              | SCODE | SNAME              | MIN(RATE) |
|-------------------|-------|--------------------|-----------|
| GEL PEN PREMIUM   | 21    | PREMIUM STATIONERS | 12        |
| ERASER SMALL      | 22    | TETRA SUPPLY       | 6         |
| SHARPENER CLASSIC | 23    | SOFT PLASTICS      | 8         |

Consider the following tables Item and Customer. Write SQL commands for the statement (i) to (iv).

**TABLE: ITEM** 

| i_ID | ItemName          | Manufacturer | Price |
|------|-------------------|--------------|-------|
| PC01 | Personal Computer | ABC          | 35000 |
| LC05 | Laptop            | ABC          | 55000 |
| PC03 | Personal Computer | XYZ          | 32000 |
| PC06 | Personal Computer | COMP         | 37000 |
| LC03 | Laptop            | PQR          | 57000 |

### **TABLE: CUSTOMER**

| C_ID | CustomerName | City      | i_ID |
|------|--------------|-----------|------|
| 01   | N Roy        | Delhi     | LC03 |
| 06   | H Singh      | Mumbai    | PC03 |
| 12   | R Pandey     | Delhi     | PC06 |
| 15   | C Sharma     | Delhi     | LC03 |
| 16   | K Agarwal    | Bangalore | PC01 |

- i) To display the details of those customers whose city is Delhi.
- ii) To display the details of item whose price is in the range of 35000 to 55000 (both values included).
- iii) To display the customer name, city from table Customer, and ItemName and Price from table Item, with their corresponding i\_ID.
- iv) To increase the price of all items by 1000 in the table Item.

#### **CUSTOMER**

CREATE TABLE CUSTOMER (C\_ID VARCHAR(10), CUSTOMERNAME CHAR(20), CITY CHAR (20), I\_ID VARCHAR(10));

INSERT INTO CUSTOMER VALUES ('01', 'N ROY', 'DELHI', 'LC03'); INSERT INTO CUSTOMER VALUES ('06', 'H SINGH', 'MUMBAI', 'PC03'); INSERT INTO CUSTOMER VALUES ('12', 'R PANDEY', 'DELHI', 'PC06'); INSERT INTO CUSTOMER VALUES ('15', 'C SHARMA', 'DELHI', 'LC03'); INSERT INTO CUSTOMER VALUES ('16', 'K AGARWAL', 'BANGLORE', 'PC01');

#### Number of Records: 5

| C_ID | CUSTOMERNAME | CITY     | I_ID |
|------|--------------|----------|------|
| 01   | N ROY        | DELHI    | LC03 |
| 06   | H SINGH      | MUMBAI   | PC03 |
| 12   | R PANDEY     | DELHI    | PC06 |
| 15   | C SHARMA     | DELHI    | LC03 |
| 16   | K AGARWAL    | BANGLORE | PC01 |

#### **ITEM**

CREATE TABLE ITEM (I\_ID VARCHAR(10), ITEMNAME CHAR(20), MANUFACTURER CHAR (20), PRICE DECIMAL)

INSERT INTO ITEM VALUES ('PC01', 'PERSONAL COMPUTER', 'ABC', 35000) INSERT INTO ITEM VALUES ('LC05', 'LAPTOP', 'ABC', 55000) INSERT INTO ITEM VALUES ('PC03', 'PERSONAL COMPUTER', 'XYZ', 32000) INSERT INTO ITEM VALUES ('PC06', 'PERSONAL COMPUTER', 'COMP', 37000) INSERT INTO ITEM VALUES ('LC03', 'LAPTOP', 'PQR', 57000)

| I_ID | ITEMNAME          | MANUFACTURER | PRICE |
|------|-------------------|--------------|-------|
| PC01 | PERSONAL COMPUTER | ABC          | 35000 |
| LC05 | LAPTOP            | ABC          | 55000 |
| PC03 | PERSONAL COMPUTER | XYZ          | 32000 |
| PC06 | PERSONAL COMPUTER | COMP         | 37000 |
| LC03 | LAPTOP            | PQR          | 57000 |

## i) SELECT \* FROM CUSTOMER WHERE CITY='DELHI';

Number of Records: 3

| C_ID | CUSTOMERNAME | CITY  | I_ID |
|------|--------------|-------|------|
| 01   | N ROY        | DELHI | LC03 |
| 12   | R PANDEY     | DELHI | PC06 |
| 15   | C SHARMA     | DELHI | LC03 |

## ii) SELECT \* FROM ITEM WHERE PRICE BETWEEN 35000 AND 55000;

Number of Records: 3

| I_ID | ITEMNAME          | MANUFACTURER | PRICE |
|------|-------------------|--------------|-------|
| PC01 | PERSONAL COMPUTER | ABC          | 35000 |
| LC05 | LAPTOP            | ABC          | 55000 |
| PC06 | PERSONAL COMPUTER | COMP         | 37000 |

## iii) SELECT CUSTOMERNAME, CITY, ITEMNAME, PRICE FROM CUSTOMER, ITEM WHERE CUSTOMER.I\_ID=ITEM.I\_ID;

| CUSTOMERNAME | CITY     | ITEMNAME          | PRICE |
|--------------|----------|-------------------|-------|
| N ROY        | DELHI    | LAPTOP            | 57000 |
| H SINGH      | MUMBAI   | PERSONAL COMPUTER | 32000 |
| R PANDEY     | DELHI    | PERSONAL COMPUTER | 37000 |
| C SHARMA     | DELHI    | LAPTOP            | 57000 |
| K AGARWAL    | BANGLORE | PERSONAL COMPUTER | 35000 |

## iv) UPDATE ITEM SET PRICE=PRICE+1000

| Number of Records: 5 |                   |              |       |  |
|----------------------|-------------------|--------------|-------|--|
| I_ID                 | ITEMNAME          | MANUFACTURER | PRICE |  |
| PC01                 | PERSONAL COMPUTER | ABC          | 36000 |  |
| LC05                 | LAPTOP            | ABC          | 56000 |  |
| PC03                 | PERSONAL COMPUTER | XYZ          | 33000 |  |
| PC06                 | PERSONAL COMPUTER | COMP         | 38000 |  |
| LC03                 | LAPTOP            | PQR          | 58000 |  |

## v) SELECT DISTINCT CITY FROM CUSTOMER;

Number of Records: 3

| CITY     |  |
|----------|--|
| DELHI    |  |
| MUMBAI   |  |
| BANGLORE |  |

## vi) SELECT ITEMNAME, MAX(PRICE), COUNT(\*) FROM ITEM GROUP BY ITEMNAME;

Number of Records: 2

| ITEMNAME          | MAX(PRICE) | COUNT(*) |
|-------------------|------------|----------|
| LAPTOP            | 58000      | 2        |
| PERSONAL COMPUTER | 38000      | 3        |

## vii) SELECT CUSTOMERNAME, MANUFACTURER FROM CUSTOMER, ITEM WHERE CUSTOMER.I\_ID=ITEM.I\_ID;

| CUSTOMERNAME | MANUFACTURER |
|--------------|--------------|
| N ROY        | PQR          |
| H SINGH      | XYZ          |
| R PANDEY     | COMP         |
| C SHARMA     | PQR          |
| K AGARWAL    | ABC          |

## viii) SELECT ITEMNAME, PRICE\*100 FROM ITEM WHERE MANUFACTURER='ABC';

| ITEMNAME          | PRICE*100 |
|-------------------|-----------|
| PERSONAL COMPUTER | 3500000   |
| LAPTOP            | 5500000   |

Consider the following tables. Write SQL commands for the statement (i) to (iv).

### **TABLE: SENDER**

#### Number of Records: 4

| SENDERID | SENDERNAME | SENDERADRESS      | SENDERCITY |
|----------|------------|-------------------|------------|
| ND01     | R JAIN     | 2, ABC APPTS      | NEW DELHI  |
| MU02     | H SINHA    | 12, NEWTON        | MUMBAI     |
| MU15     | S JHA      | 27/A, PARK STREET | MUMBAI     |
| ND50     | T PRASAD   | 122-K, SDA        | NEW DELHI  |

#### **TABLE: RECIPIENT**

| RECID | SENDERID | RECNAME    | RECADRESS             | RECCITY   |
|-------|----------|------------|-----------------------|-----------|
| KO05  | ND01     | R BAJPAYEE | 5, CENTRAL AVENUE     | KOLKATA   |
| ND08  | MU02     | S MAHAJAN  | 116, A VIHAR          | NEW DELHI |
| MU19  | ND01     | H SINGH    | 2A, ANDHERI EAST      | MUMBAI    |
| MU32  | MU15     | P K SWAMY  | B5, CS TERMINUS       | MUMBAI    |
| ND48  | ND50     | S TRIPATHI | 13, B1 D, MAYUR VIHAR | NEW DELHI |

- i) To display the names of all senders from Mumbai.
- ii) To display the RecID, sender name, sender address, RecName, RecAddress for every Recipient.
- iii) To display recipient details in ascending order of RecName.
- iv) To display the number of recipients from each city.

#### **SENDER**

CREATE TABLE SENDER (SENDERID VARCHAR(10), SENDERNAME CHAR(20), SENDERADRESS CHAR(30), SENDERCITY CHAR(20));

INSERT INTO SENDER VALUES ('ND01', 'R JAIN', '2, ABC APPTS', 'NEW DELHI'); INSERT INTO SENDER VALUES ('MU02', 'H SINHA', '12, NEWTON', 'MUMBAI'); INSERT INTO SENDER VALUES ('MU15', 'S JHA', '27/A, PARK STREET', 'MUMBAI'); INSERT INTO SENDER VALUES ('ND50', 'T PRASAD', '122-K, SDA', 'NEW DELHI');

#### Number of Records: 4

| SENDERID | SENDERNAME | SENDERADRESS      | SENDERCITY |
|----------|------------|-------------------|------------|
| ND01     | R JAIN     | 2, ABC APPTS      | NEW DELHI  |
| MU02     | H SINHA    | 12, NEWTON        | MUMBAI     |
| MU15     | S JHA      | 27/A, PARK STREET | MUMBAI     |
| ND50     | T PRASAD   | 122-K, SDA        | NEW DELHI  |

#### **RECIPIENT**

CREATE TABLE RECIPIENT (RECID VARCHAR(10), SENDERID VARCHAR(10), RECNAME CHAR(30), RECADRESS CHAR(30), RECCITY CHAR(10));

INSERT INTO RECIPIENT VALUES ('KO05', 'ND01', 'R BAJPAYEE', '5, CENTRAL AVENUE', 'KOLKATA');

INSERT INTO RECIPIENT VALUES ('ND08', 'MU02', 'S MAHAJAN', '116, A VIHAR', 'NEW DELHI');

INSERT INTO RECIPIENT VALUES ('MU19', 'ND01', 'H SINGH', '2A, ANDHERI EAST', 'MUMBAI');

INSERT INTO RECIPIENT VALUES ('MU32', 'MU15', 'P K SWAMY', 'B5, CS TERMINUS', 'MUMBAI'):

INSERT INTO RECIPIENT VALUES ('ND48', 'ND50', 'S TRIPATHI', '13, B1 D, MAYUR VIHAR', 'NEW DELHI');

| RECID | SENDERID | RECNAME    | RECADRESS             | RECCITY   |
|-------|----------|------------|-----------------------|-----------|
| KO05  | ND01     | R BAJPAYEE | 5, CENTRAL AVENUE     | KOLKATA   |
| ND08  | MU02     | S MAHAJAN  | 116, A VIHAR          | NEW DELHI |
| MU19  | ND01     | H SINGH    | 2A, ANDHERI EAST      | MUMBAI    |
| MU32  | MU15     | P K SWAMY  | B5, CS TERMINUS       | MUMBAI    |
| ND48  | ND50     | S TRIPATHI | 13, B1 D, MAYUR VIHAR | NEW DELHI |

i) SELECT SENDERNAME FROM SENDER WHERE SENDERCITY='MUMBAI';

Number of Records: 2

| SENDERNAME |  |
|------------|--|
| H SINHA    |  |
| S JHA      |  |

ii) SELECT RECID, SENDERNAME, SENDERADRESS, RECNAME, RECADRESS FROM RECIPIENT, SENDER WHERE SENDER.SENDERID=RECIPIENT.SENDERID GROUP BY SENDER.SENDERID;

Number of Records: 4

| RECID | SENDERNAME | SENDERADRESS      | RECNAME    | RECADRESS             |
|-------|------------|-------------------|------------|-----------------------|
| ND08  | H SINHA    | 12, NEWTON        | S MAHAJAN  | 116, A VIHAR          |
| MU32  | S JHA      | 27/A, PARK STREET | P K SWAMY  | B5, CS TERMINUS       |
| MU19  | R JAIN     | 2, ABC APPTS      | H SINGH    | 2A, ANDHERI EAST      |
| ND48  | T PRASAD   | 122-K, SDA        | S TRIPATHI | 13, B1 D, MAYUR VIHAR |

### iii) SELECT \* FROM RECIPIENT ORDER BY RECNAME ASC;

Number of Records: 5

| RECID | SENDERID | RECNAME    | RECADRESS             | RECCITY   |
|-------|----------|------------|-----------------------|-----------|
| MU19  | ND01     | H SINGH    | 2A, ANDHERI EAST      | MUMBAI    |
| MU32  | MU15     | P K SWAMY  | B5, CS TERMINUS       | MUMBAI    |
| KO05  | ND01     | R BAJPAYEE | 5, CENTRAL AVENUE     | KOLKATA   |
| ND08  | MU02     | S MAHAJAN  | 116, A VIHAR          | NEW DELHI |
| ND48  | ND50     | S TRIPATHI | 13, B1 D, MAYUR VIHAR | NEW DELHI |

## iv) SELECT DISTINCT RECCITY, COUNT(RECCITY) FROM RECIPIENT GROUP BY RECCITY;

| RECCITY   | COUNT(RECCITY) |
|-----------|----------------|
| KOLKATA   | 1              |
| MUMBAI    | 2              |
| NEW DELHI | 2              |

## v) SELECT DISTINCT SENDERCITY FROM SENDER;

Number of Records: 2

| SENDERCITY |  |
|------------|--|
| NEW DELHI  |  |
| MUMBAI     |  |

## vi) SELECT A.SENDERNAME, B.RECNAME FROM SENDER A, RECIPIENT B WHERE A.SENDERID=B.SENDERID AND B.RECCITY='MUMBAI';

Number of Records: 2

| SENDERNAME | RECNAME   |
|------------|-----------|
| R JAIN     | H SINGH   |
| S JHA      | P K SWAMY |

## vii) SELECT RECNAME, RECADRESS FROM RECIPIENT WHERE RECCITY NOT IN ('MUMBAI', 'KOLKATA');

Number of Records: 2

| RECNAME    | RECADRESS             |
|------------|-----------------------|
| S MAHAJAN  | 116, A VIHAR          |
| S TRIPATHI | 13, B1 D, MAYUR VIHAR |

## viii) SELECT RECID, RECNAME FROM RECIPIENT WHERE SENDERID='MU02' OR SENDERID='ND50';

| RECID | RECNAME    |
|-------|------------|
| ND08  | S MAHAJAN  |
| ND48  | S TRIPATHI |

Consider the following tables. Write SQL commands for the statements (i) to (iv).

#### **TABLE: WORKER**

Number of Records: 5

| ECODE | NAME         | DESIG      | PLEVEL | рој        | DOB        |
|-------|--------------|------------|--------|------------|------------|
| 11    | RADHE SHYAM  | SUPERVISOR | P001   | 2004-09-13 | 1981-08-23 |
| 13    | FIZZA        | OPERATOR   | P003   | 2009-06-16 | 1983-10-14 |
| 15    | AMEEN AHMED  | MECHANIC   | P002   | 2006-08-21 | 1984-03-13 |
| 18    | SANYA        | CLERK      | P002   | 2005-12-19 | 1983-06-09 |
| 12    | CHANDER NATH | OPERATOR   | P003   | 2010-02-22 | 1987-07-12 |

### **TABLE: PAYLEVEL**

| PLEVEL | PAY   | ALLOWANCE |  |
|--------|-------|-----------|--|
| P001   | 26000 | 12000     |  |
| P002   | 22000 | 10000     |  |
| P003   | 12000 | 6000      |  |

- i) To display the details of all workers in descending order of DOB.
- ii) To display the name and designation of workers, whose pay level is either P001 or P002.
- iii) To display the content of all the workers table, whose DOB is between '19 Jan 1984' and '18 Jan 1987'.
- iv) To add a new row with the following:
- 19, 'Daya Kishore', 'Operator', 'P003', '19-Jun-2008', '11-Jul-1984'.

#### **WORKERS**

CREATE TABLE WORKERS (ECODE INTEGER, NAME CHAR(30), DESIG CHAR(20), PLEVEL VARCHAR(10), DOJ DATETIME, DOB DATETIME);

INSERT INTO WORKERS VALUES (11, 'RADHE SHYAM', 'SUPERVISOR', 'P001', '2004-09-13', '1981-08-23');

INSERT INTO WORKERS VALUES (12, 'CHANDER NATH', 'OPERATOR', 'P003', '2010-02-22', '1987-07-12');

INSERT INTO WORKERS VALUES (13, 'FIZZA', 'OPERATOR', 'P003', '2009-06-16', '1983-10-14');

INSERT INTO WORKERS VALUES (15, 'AMEEN AHMED', 'MECHANIC', 'P002', '2006-08-21', '1984-03-13');

INSERT INTO WORKERS VALUES (18, 'SANYA', 'CLERK', 'P002', '2005-12-19', '1983-06-09');

#### Number of Records: 5

| ECODE | NAME         | DESIG      | PLEVEL | DOJ        | DOB        |
|-------|--------------|------------|--------|------------|------------|
| 11    | RADHE SHYAM  | SUPERVISOR | P001   | 2004-09-13 | 1981-08-23 |
| 13    | FIZZA        | OPERATOR   | P003   | 2009-06-16 | 1983-10-14 |
| 15    | AMEEN AHMED  | MECHANIC   | P002   | 2006-08-21 | 1984-03-13 |
| 18    | SANYA        | CLERK      | P002   | 2005-12-19 | 1983-06-09 |
| 12    | CHANDER NATH | OPERATOR   | P003   | 2010-02-22 | 1987-07-12 |

### **PAYLEVEL**

CREATE TABLE PAYLEVEL (PLEVEL VARCHAR(10), PAY INTEGER, ALLOWANCE INTEGER);

INSERT INTO PAYLEVEL VALUES ('P001', 26000, 12000); INSERT INTO PAYLEVEL VALUES ('P002', 22000, 10000); INSERT INTO PAYLEVEL VALUES ('P003', 12000, 6000);

| PLEVEL | PAY   | ALLOWANCE |  |
|--------|-------|-----------|--|
| P001   | 26000 | 12000     |  |
| P002   | 22000 | 10000     |  |
| P003   | 12000 | 6000      |  |

## i) SELECT \* FROM WORKERS ORDER BY DOB DESC;

Number of Records: 5

| ECODE | NAME         | DESIG      | PLEVEL | DOJ        | DOB        |
|-------|--------------|------------|--------|------------|------------|
| 12    | CHANDER NATH | OPERATOR   | P003   | 2010-02-22 | 1987-07-12 |
| 15    | AMEEN AHMED  | MECHANIC   | P002   | 2006-08-21 | 1984-03-13 |
| 13    | FIZZA        | OPERATOR   | P003   | 2009-06-16 | 1983-10-14 |
| 18    | SANYA        | CLERK      | P002   | 2005-12-19 | 1983-06-09 |
| 11    | RADHE SHYAM  | SUPERVISOR | P001   | 2004-09-13 | 1981-08-23 |

### ii) SELECT NAME, DESIG FROM WORKERS WHERE PLEVEL='P002' OR PLEVEL='P001';

Number of Records: 3

| NAME        | DESIG      |
|-------------|------------|
| RADHE SHYAM | SUPERVISOR |
| AMEEN AHMED | MECHANIC   |
| SANYA       | CLERK      |

## iii) SELECT \* FROM WORKERS WHERE DOB BETWEEN '1984-01-19' AND '1987-01-18';

Number of Records: 1

| E | ECODE | NAME        | DESIG    | PLEVEL | рој        | DOB        |
|---|-------|-------------|----------|--------|------------|------------|
|   | 15    | AMEEN AHMED | MECHANIC | P002   | 2006-08-21 | 1984-03-13 |

## iv) INSERT INTO WORKERS VALUES (19, 'DAYA KISHORE', 'OPERATOR', 'P003', '2008-06-19', '1984-07-11');

| ECODE | NAME         | DESIG      | PLEVEL | DOJ        | DOB        |
|-------|--------------|------------|--------|------------|------------|
| 11    | RADHE SHYAM  | SUPERVISOR | P001   | 2004-09-13 | 1981-08-23 |
| 13    | FIZZA        | OPERATOR   | P003   | 2009-06-16 | 1983-10-14 |
| 15    | AMEEN AHMED  | MECHANIC   | P002   | 2006-08-21 | 1984-03-13 |
| 18    | SANYA        | CLERK      | P002   | 2005-12-19 | 1983-06-09 |
| 12    | CHANDER NATH | OPERATOR   | P003   | 2010-02-22 | 1987-07-12 |
| 19    | DAYA KISHORE | OPERATOR   | P003   | 2008-06-19 | 1984-07-11 |

Consider the following tables. Write SQL commands for the statement (a) to (f).

#### **TABLE: FURNITURE**

Number of Records: 10

| NO | ITEMNAME        | ТҮРЕ         | DATEOFSTOCK | PRICE | DISCOUNT |
|----|-----------------|--------------|-------------|-------|----------|
| 1  | WHITE LOTUS     | DOUBLE BED   | 2002-02-23  | 30000 | 25       |
| 2  | PINK FEATHER    | BABY COT     | 2002-01-20  | 7000  | 20       |
| 3  | DOLPHIN         | BABY COT     | 2002-02-19  | 9500  | 20       |
| 4  | DECENT          | OFFICE TABLE | 2002-01-01  | 25000 | 30       |
| 5  | COMFORT ZONE    | DOUBLE BED   | 2002-01-12  | 25000 | 25       |
| 6  | DONALD          | BABY COT     | 2002-02-24  | 6500  | 15       |
| 7  | ROYAL FINISH    | OFFICE TABLE | 2002-02-20  | 18000 | 30       |
| 8  | ROYAL TIGER     | SOFA         | 2002-02-22  | 31000 | 30       |
| 9  | ECONO SITTING   | SOFA         | 2001-12-13  | 9500  | 25       |
| 10 | EATING PARADISE | DINING TABLE | 2002-02-19  | 11500 | 25       |

### **TABLE: ARRIVALS**

| NO | ITEMNAME     | ТҮРЕ       | DATEOFSTOCK | PRICE | DISCOUNT |
|----|--------------|------------|-------------|-------|----------|
| 11 | WOOD COMFORT | DOUBLE BED | 2003-03-23  | 25000 | 25       |
| 12 | OLD FOX      | SOFA       | 2003-02-20  | 17000 | 20       |
| 13 | MICKY        | BABY COT   | 2003-02-21  | 7500  | 15       |

- a) To display the information about the baby cots from furniture table.
- b) To display the item name which are price at more than 15000 from the furniture table.
- c) To list item name and type of those items, in which date of stock is before 22/01/02 from the furniture table in descending order of item name.
- d) To display the item name and date of stock of those items, in which the discount percentage is more than 25.
- e) To count the number of items, whose type is sofa from furniture table.
- f) To insert a new row in Arrivals table:
- 14, 'Velvet touch', 'Double bed', '25/03/03', 25000, 30

#### **FURNITURE**

CREATE TABLE FURNITURE (NO INTEGER, ITEMNAME CHAR(30), TYPE CHAR(20), DATEOFSTOCK DATETIME, PRICE INTEGER, DISCOUNT INTEGER);

INSERT INTO FURNITURE VALUES (1, 'WHITE LOTUS', 'DOUBLE BED', '2002-02-23', 30000, 25):

INSERT INTO FURNITURE VALUES (2, 'PINK FEATHER', 'BABY COT', '2002-01-20', 7000, 20);

INSERT INTO FURNITURE VALUES (3, 'DOLPHIN', 'BABY COT', '2002-02-19', 9500, 20); INSERT INTO FURNITURE VALUES (4, 'DECENT', 'OFFICE TABLE', '2002-01-01', 25000, 30); INSERT INTO FURNITURE VALUES (5, 'COMFORT ZONE', 'DOUBLE BED', '2002-01-12', 25000, 25);

INSERT INTO FURNITURE VALUES (6, 'DONALD', 'BABY C0T', '2002-02-24', 6500, 15); INSERT INTO FURNITURE VALUES (7, 'ROYAL FINISH', 'OFFICE TABLE', '2002-02-20', 18000, 30);

INSERT INTO FURNITURE VALUES (8, 'ROYAL TIGER', 'SOFA', '2002-02-22', 31000, 30); INSERT INTO FURNITURE VALUES (9, 'ECONO SITTING', 'SOFA', '2001-12-13', 9500, 25); INSERT INTO FURNITURE VALUES (10, 'EATING PARADISE', 'DINING TABLE', '2002-02-19', 11500, 25);

| NO | ITEMNAME        | ТҮРЕ         | DATEOFSTOCK | PRICE | DISCOUNT |
|----|-----------------|--------------|-------------|-------|----------|
| 1  | WHITE LOTUS     | DOUBLE BED   | 2002-02-23  | 30000 | 25       |
| 2  | PINK FEATHER    | BABY COT     | 2002-01-20  | 7000  | 20       |
| 3  | DOLPHIN         | BABY COT     | 2002-02-19  | 9500  | 20       |
| 4  | DECENT          | OFFICE TABLE | 2002-01-01  | 25000 | 30       |
| 5  | COMFORT ZONE    | DOUBLE BED   | 2002-01-12  | 25000 | 25       |
| 6  | DONALD          | BABY COT     | 2002-02-24  | 6500  | 15       |
| 7  | ROYAL FINISH    | OFFICE TABLE | 2002-02-20  | 18000 | 30       |
| 8  | ROYAL TIGER     | SOFA         | 2002-02-22  | 31000 | 30       |
| 9  | ECONO SITTING   | SOFA         | 2001-12-13  | 9500  | 25       |
| 10 | EATING PARADISE | DINING TABLE | 2002-02-19  | 11500 | 25       |

### **ARRIVALS**

CREATE TABLE ARRIVALS (NO INTEGER, ITEMNAME CHAR(30), TYPE CHAR(20), DATEOFSTOCK DATETIME, PRICE INTEGER, DISCOUNT INTEGER);

INSERT INTO ARRIVALS VALUES (11, 'WOOD COMFORT', 'DOUBLE BED', '2003-03-23', 25000, 25);

INSERT INTO ARRIVALS VALUES (12, 'OLD FOX', 'SOFA', '2003-02-20', 17000, 20); INSERT INTO ARRIVALS VALUES (13, 'MICKY', 'BABY COT', '2003-02-21', 7500, 15);

| NO | ITEMNAME     | ТҮРЕ       | DATEOFSTOCK | PRICE | DISCOUNT |
|----|--------------|------------|-------------|-------|----------|
| 11 | WOOD COMFORT | DOUBLE BED | 2003-03-23  | 25000 | 25       |
| 12 | OLD FOX      | SOFA       | 2003-02-20  | 17000 | 20       |
| 13 | MICKY        | BABY COT   | 2003-02-21  | 7500  | 15       |

### a) SELECT \* FROM FURNITURE WHERE TYPE='BABY COT';

Number of Records: 2

| NO | ITEMNAME     | ТҮРЕ     | DATEOFSTOCK | PRICE | DISCOUNT |
|----|--------------|----------|-------------|-------|----------|
| 2  | PINK FEATHER | BABY COT | 2002-01-20  | 7000  | 20       |
| 3  | DOLPHIN      | BABY COT | 2002-02-19  | 9500  | 20       |

## b) SELECT ITEMNAME FROM FURNITURE WHERE PRICE>15000;

Number of Records: 5

| ITEMNAME     |  |
|--------------|--|
| WHITE LOTUS  |  |
| DECENT       |  |
| COMFORT ZONE |  |
| ROYAL FINISH |  |
| ROYAL TIGER  |  |

## c) SELECT ITEMNAME, TYPE FROM FURNITURE WHERE DATEOFSTOCK< '2002-01-22' ORDER BY ITEMNAME DESC;

Number of Records: 4

| ITEMNAME      | ТҮРЕ         |
|---------------|--------------|
| PINK FEATHER  | BABY COT     |
| ECONO SITTING | SOFA         |
| DECENT        | OFFICE TABLE |
| COMFORT ZONE  | DOUBLE BED   |

## d) SELECT ITEMNAME, DATEOFSTOCK FROM FURNITURE WHERE DISCOUNT>25;

| ITEMNAME     | DATEOFSTOCK |
|--------------|-------------|
| DECENT       | 2002-01-01  |
| ROYAL FINISH | 2002-02-20  |
| ROYAL TIGER  | 2002-02-22  |

## e) SELECT COUNT(TYPE) FROM FURNITURE WHERE TYPE='SOFA';

Number of Records: 1

| COUNT(TYPE) |  |
|-------------|--|
| 2           |  |

## f) INSERT INTO ARRIVALS VALUES (14, 'VELVET TOUCH', 'DOUBLE BED', '2003-03-25', 25000, 30);

| NO | ITEMNAME     | ТҮРЕ       | DATEOFSTOCK | PRICE | DISCOUNT |
|----|--------------|------------|-------------|-------|----------|
| 11 | WOOD COMFORT | DOUBLE BED | 2003-03-23  | 25000 | 25       |
| 12 | OLD FOX      | SOFA       | 2003-02-20  | 17000 | 20       |
| 13 | MICKY        | BABY COT   | 2003-02-21  | 7500  | 15       |
| 14 | VELVET TOUCH | DOUBLE BED | 2003-03-25  | 25000 | 30       |

Consider the following tables. Write SQL commands for the statement (i) to (iv).

#### **TABLE: DOCTOR**

Number of Records: 9

| ID  | NAME     | DEPT       | SEX | EXPERIENCE |
|-----|----------|------------|-----|------------|
| 101 | JOHN     | ENT        | М   | 12         |
| 104 | SMITH    | ORTHOPEDIC | М   | 5          |
| 107 | GEORGE   | CARDIOLOGY | М   | 10         |
| 114 | LARA     | SKIN       | F   | 3          |
| 109 | K GEORGE | MEDICINE   | F   | 9          |
| 105 | JOHNSON  | ORTHOPEDIC | М   | 10         |
| 117 | LUCY     | ENT        | F   | 3          |
| 111 | BILL     | MEDICINE   | F   | 12         |
| 130 | MORPHY   | ORTHOPEDIC | М   | 15         |

#### **TABLE: SALARY**

| ID  | BASIC | ALLOWANCE | CONSULTATION |
|-----|-------|-----------|--------------|
| 101 | 12000 | 1000      | 300          |
| 104 | 23000 | 2300      | 500          |
| 107 | 32000 | 4000      | 500          |
| 114 | 12000 | 5200      | 100          |
| 109 | 42000 | 1700      | 200          |
| 105 | 18900 | 1690      | 300          |
| 130 | 21700 | 2600      | 300          |

- i) To display the name of all doctors who are in medicine and having more than 10 years experience from the table doctor.
- ii) To display the average salary of all doctors working in ENT using the tables doctor and salary. Salary = basic + allowance.
- iii) To display the minimum allowance of female doctors.
- iv) To display the highest consultation fee among all male doctors.

#### **DOCTOR**

CREATE TABLE DOCTOR (ID INTEGER, NAME CHAR(20), DEPT CHAR (20), SEX CHAR(1), EXPERIENCE INTEGER);

```
INSERT INTO DOCTOR VALUES (101, 'JOHN', 'ENT', 'M', 12); INSERT INTO DOCTOR VALUES (104, 'SMITH', 'ORTHOPEDIC', 'M', 5); INSERT INTO DOCTOR VALUES (107, 'GEORGE', 'CARDIOLOGY', 'M', 10); INSERT INTO DOCTOR VALUES (114, 'LARA', 'SKIN', 'F', 3); INSERT INTO DOCTOR VALUES (109, 'K GEORGE', 'MEDICINE', 'F', 9); INSERT INTO DOCTOR VALUES (105, 'JOHNSON', 'ORTHOPEDIC', 'M', 10); INSERT INTO DOCTOR VALUES (117, 'LUCY', 'ENT', 'F',3); INSERT INTO DOCTOR VALUES (111, 'BILL', 'MEDICINE', 'F', 12); INSERT INTO DOCTOR VALUES (130, 'MORPHY', 'ORTHOPEDIC', 'M', 15);
```

| ID  | NAME     | DEPT       | SEX | EXPERIENCE |
|-----|----------|------------|-----|------------|
| 101 | JOHN     | ENT        | М   | 12         |
| 104 | SMITH    | ORTHOPEDIC | М   | 5          |
| 107 | GEORGE   | CARDIOLOGY | М   | 10         |
| 114 | LARA     | SKIN       | F   | 3          |
| 109 | K GEORGE | MEDICINE   | F   | 9          |
| 105 | JOHNSON  | ORTHOPEDIC | М   | 10         |
| 117 | LUCY     | ENT        | F   | 3          |
| 111 | BILL     | MEDICINE   | F   | 12         |
| 130 | MORPHY   | ORTHOPEDIC | М   | 15         |

#### **SALARY**

CREATE TABLE SALARY (ID INTEGER, BASIC INTEGER, ALLOWANCE INTEGER, CONSULTATION INTEGER);

```
INSERT INTO SALARY VALUES (101, 12000, 1000, 300); INSERT INTO SALARY VALUES (104, 23000, 2300, 500); INSERT INTO SALARY VALUES (107, 32000, 4000, 500); INSERT INTO SALARY VALUES (114, 12000, 5200, 100); INSERT INTO SALARY VALUES (109, 42000, 1700, 200); INSERT INTO SALARY VALUES (105, 18900, 1690, 300); INSERT INTO SALARY VALUES (130, 21700, 2600, 300);
```

| ID  | BASIC | ALLOWANCE | CONSULTATION |
|-----|-------|-----------|--------------|
| 101 | 12000 | 1000      | 300          |
| 104 | 23000 | 2300      | 500          |
| 107 | 32000 | 4000      | 500          |
| 114 | 12000 | 5200      | 100          |
| 109 | 42000 | 1700      | 200          |
| 105 | 18900 | 1690      | 300          |
| 130 | 21700 | 2600      | 300          |

i) SELECT NAME FROM DOCTOR WHERE DEPT='MEDICINE' AND EXPERIENCE>10;

Number of Records: 1

| NAME |  |  |
|------|--|--|
| BILL |  |  |

ii) SELECT NAME, AVG(BASIC+ALLOWANCE) FROM SALARY, DOCTOR WHERE SALARY.ID=DOCTOR.ID AND DEPT='ENT' GROUP BY SALARY.ID;

Number of Records: 1

| NAME | AVG(BASIC+ALLOWANCE) |
|------|----------------------|
| JOHN | 13000                |

iii) SELECT NAME, MIN(ALLOWANCE) FROM DOCTOR, SALARY WHERE SEX='F' AND SALARY.ID=DOCTOR.ID;

Number of Records: 1

| NAME     | MIN(ALLOWANCE) |
|----------|----------------|
| K GEORGE | 1700           |

iv) SELECT NAME, MAX(CONSULTATION) FROM SALARY, DOCTOR WHERE SEX='M' AND SALARY.ID=DOCTOR.ID;

| NAME  | MAX(CONSULTATION) |
|-------|-------------------|
| SMITH | 500               |

Consider the following tables. Write SQL commands for the statement (i) to (iv).

#### **TABLE: EMPLOYEES**

Number of Records: 9

| EMPID | FIRSTNAME | LASTNAME | ADDRESS           | CITY         |
|-------|-----------|----------|-------------------|--------------|
| 010   | GEORGE    | SMITH    | 83 FIRST STREET   | HOWARD       |
| 105   | MARY      | JONES    | 842 VINE AVENUE   | LOSANTIVILLE |
| 152   | SAM       | TONES    | 33 ELM ST         | PARIS        |
| 215   | SARAH     | ACKERMAN | 440 US 110        | UPTON        |
| 244   | MANILA    | SENGUPTA | 24 FRIENDS STREET | NEW DELHI    |
| 300   | ROBERT    | SAMUEL   | 9 FIFTH CROSS     | WASHINGTON   |
| 335   | HENRY     | WILLIAMS | 12 MOORE STREET   | BOSTON       |
| 400   | RACHEL    | LEE      | 121 HARRISON ST   | NEW YORK     |
| 441   | PETER     | THOMPSON | 11 RED ROAD       | PARIS        |

#### **TABLE: EMPSALARY**

| EMPID | SALARY | BENEFITS | DESIGNATION |
|-------|--------|----------|-------------|
| 010   | 75000  | 15000    | MANAGER     |
| 105   | 65000  | 15000    | MANAGER     |
| 152   | 80000  | 25000    | DIRECTOR    |
| 215   | 75000  | 12500    | MANAGER     |
| 244   | 50000  | 12000    | CLERK       |
| 300   | 45000  | 10000    | CLERK       |
| 335   | 40000  | 10000    | CLERK       |
| 400   | 32000  | 7500     | SALESMAN    |
| 441   | 28000  | 7500     | SALESMAN    |

- i) To display the first name, last name, address and city of all employees living in Paris.
- ii) To display the content of employees table in descending order of first name.
- iii) To display the first name, last name, and total salary of all managers from the tables employees and empsalary where total salary is salary is salary + benefits.
- iv) To display the maximum salary among managers and clerks.

#### **EMPLOYEES**

CREATE TABLE EMPLOYEES (EMPID CHAR(5), FIRSTNAME CHAR(20), LASTNAME CHAR(20), ADDRESS VARCHAR(30), CITY CHAR(20));

INSERT INTO EMPLOYEES VALUES ('010', 'GEORGE', 'SMITH', '83 FIRST STREET', 'HOWARD');

INSERT INTO EMPLOYEES VALUES ('105', 'MARY', 'JONES', '842 VINE AVENUE', 'LOSANTIVILLE');

INSERT INTO EMPLOYEES VALUES ('152', 'SAM', 'TONES', '33 ELM ST', 'PARIS');

INSERT INTO EMPLOYEES VALUES ('215', 'SARAH', 'ACKERMAN', '440 US 110', 'UPTON');

INSERT INTO EMPLOYEES VALUES ('244', 'MANILA', 'SENGUPTA', '24 FRIENDS STREET', 'NEW DELHI');

INSERT INTO EMPLOYEES VALUES ('300', 'ROBERT', 'SAMUEL', '9 FIFTH CROSS', 'WASHINGTON');

INSERT INTO EMPLOYEES VALUES ('335', 'HENRY', 'WILLIAMS', '12 MOORE STREET', 'BOSTON');

INSERT INTO EMPLOYEES VALUES ('400', 'RACHEL', 'LEE', '121 HARRISON ST', 'NEW YORK');

INSERT INTO EMPLOYEES VALUES ('441', 'PETER', 'THOMPSON', '11 RED ROAD', 'PARIS');

| EMPID | FIRSTNAME | LASTNAME | ADDRESS           | CITY         |
|-------|-----------|----------|-------------------|--------------|
| 010   | GEORGE    | SMITH    | 83 FIRST STREET   | HOWARD       |
| 105   | MARY      | JONES    | 842 VINE AVENUE   | LOSANTIVILLE |
| 152   | SAM       | TONES    | 33 ELM ST         | PARIS        |
| 215   | SARAH     | ACKERMAN | 440 US 110        | UPTON        |
| 244   | MANILA    | SENGUPTA | 24 FRIENDS STREET | NEW DELHI    |
| 300   | ROBERT    | SAMUEL   | 9 FIFTH CROSS     | WASHINGTON   |
| 335   | HENRY     | WILLIAMS | 12 MOORE STREET   | BOSTON       |
| 400   | RACHEL    | LEE      | 121 HARRISON ST   | NEW YORK     |
| 441   | PETER     | THOMPSON | 11 RED ROAD       | PARIS        |

#### **EMPSALARY**

CREATE TABLE EMPSALARY (EMPID CHAR(5), SALARY INTEGER, BENEFITS INTEGER, DESIGNATION CHAR(20));

```
INSERT INTO EMPSALARY VALUES ('010', 75000, 15000, 'MANAGER'); INSERT INTO EMPSALARY VALUES ('105', 65000, 15000, 'MANAGER'); INSERT INTO EMPSALARY VALUES ('152', 80000, 25000, 'DIRECTOR'); INSERT INTO EMPSALARY VALUES ('215', 75000, 12500, 'MANAGER'); INSERT INTO EMPSALARY VALUES ('244', 50000, 12000, 'CLERK'); INSERT INTO EMPSALARY VALUES ('300', 45000, 10000, 'CLERK'); INSERT INTO EMPSALARY VALUES ('335', 40000, 10000, 'CLERK'); INSERT INTO EMPSALARY VALUES ('400', 32000, 7500, 'SALESMAN'); INSERT INTO EMPSALARY VALUES ('441', 28000, 7500, 'SALESMAN');
```

| EMPID | SALARY | BENEFITS | DESIGNATION |
|-------|--------|----------|-------------|
| 010   | 75000  | 15000    | MANAGER     |
| 105   | 65000  | 15000    | MANAGER     |
| 152   | 80000  | 25000    | DIRECTOR    |
| 215   | 75000  | 12500    | MANAGER     |
| 244   | 50000  | 12000    | CLERK       |
| 300   | 45000  | 10000    | CLERK       |
| 335   | 40000  | 10000    | CLERK       |
| 400   | 32000  | 7500     | SALESMAN    |
| 441   | 28000  | 7500     | SALESMAN    |

## i) SELECT FIRSTNAME, LASTNAME, ADDRESS, CITY FROM EMPLOYEES WHERE CITY='PARIS';

Number of Records: 2

| FIRSTNAME | LASTNAME | ADDRESS     | CITY  |
|-----------|----------|-------------|-------|
| SAM       | TONES    | 33 ELM ST   | PARIS |
| PETER     | THOMPSON | 11 RED ROAD | PARIS |

## ii) SELECT \* FROM EMPLOYEES ORDER BY FIRSTNAME DESC;

Number of Records: 9

| EMPID | FIRSTNAME | LASTNAME | ADDRESS           | СІТУ         |
|-------|-----------|----------|-------------------|--------------|
| 215   | SARAH     | ACKERMAN | 440 US 110        | UPTON        |
| 152   | SAM       | TONES    | 33 ELM ST         | PARIS        |
| 300   | ROBERT    | SAMUEL   | 9 FIFTH CROSS     | WASHINGTON   |
| 400   | RACHEL    | LEE      | 121 HARRISON ST   | NEW YORK     |
| 441   | PETER     | THOMPSON | 11 RED ROAD       | PARIS        |
| 105   | MARY      | JONES    | 842 VINE AVENUE   | LOSANTIVILLE |
| 244   | MANILA    | SENGUPTA | 24 FRIENDS STREET | NEW DELHI    |
| 335   | HENRY     | WILLIAMS | 12 MOORE STREET   | BOSTON       |
| 010   | GEORGE    | SMITH    | 83 FIRST STREET   | HOWARD       |

# iii) SELECT FIRSTNAME, LASTNAME, SALARY+BENEFITS FROM EMPLOYEES, EMPSALARY WHERE EMPSALARY.EMPID=EMPLOYEES.EMPID AND DESIGNATION='MANAGER';

| FIRSTNAME | LASTNAME | SALARY+BENEFITS |
|-----------|----------|-----------------|
| GEORGE    | SMITH    | 90000           |
| MARY      | JONES    | 80000           |
| SARAH     | ACKERMAN | 87500           |

## iv) SELECT DESIGNATION, MAX(SALARY+BENEFITS) FROM EMPSALARY WHERE DESIGNATION='MANAGER' OR DESIGNATION='CLERK' GROUP BY DESIGNATION;

| DESIGNATION | MAX(SALARY+BENEFITS) |
|-------------|----------------------|
| CLERK       | 62000                |
| MANAGER     | 90000                |