## **DBMS LAB**

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### CSE-C

### **SQL Commands:**

- The standard SQL commands to interact with relational databases are CREATE, SELECT, INSERT, UPDATE, DELETE and DROP.
- These commands can be classified into groups based on their nature:

### **DDL - Data Definition Language:**

- DDL defines the conceptual schema providing a link between the logical and the physical structure of the database.
- Few of the basic commands for DDL are:

Command	Description
CREATE	Creates a new table, a view of a table, or other object in database
DROP	Deletes an entire table, a view of a table or other object in the database.
TRUNCATE	Deletes the data inside a table, but not the table itself.
ALTER	Modifies an existing database object, such as a table.

## **DML - Data Manipulation Language:**

• DML provides the data manipulation techniques like selection, insertion, deletion, updation, modification, replacement, retrieval, sorting and display of data or records.

• Few of the basic commands for DML are:

Command	Description
INSERT	Creates a record
SELECT	Retrieves certain records from one or more tables
UPDATE	Modifies records
DELETE	Deletes records

## **DCL - Data Control Language:**

- These SQL commands are used for providing security to database objects.
- The different DCL commands are:

Command	Description
GRANT	Gives a privilege to user
REVOKE	Takes back privileges granted from user

## **TCL – Transaction Control Language:**

- It includes commands to control the transactions in a database system.
- The commonly used commands are:

Command	Description
COMMIT	Make all the changes made by the statements issued permanent.
ROLLBACK	Undoes all changes since the beginning of transaction or since a save point.

## Implementation of SQL Commands

### **CREATE TABLE**

```
CREATE TABLE EMPLOYEE(

EMID NUMBER,

ENAME VARCHAR2(30),

AGE NUMBER,

SALARY NUMBER,

DEPT VARCHAR2(30)
)
```

Table created.

## **DESCRIBE**

DESCRIBE EMPLOYEE

TABLE EMPLOYEE

### Column Null? Type

EMID - NUMBER

ENAME - VARCHAR2(30)

AGE - NUMBER

SALARY - NUMBER

DEPT - VARCHAR2(30)

5 rows selected.

## **ALTER Statement:**

```
ALTER TABLE EMP ADD (ADDRESS VARCHAR2(30))
```

Table altered.

```
ALTER TABLE EMP MODIFY (ADDRESS VARCHAR2(40))
```

Table altered.

```
ALTER TABLE EMP DROP (ADDRESS)
```

Table altered.

## **DROP TABLE:**

```
DROP TABLE EMPLOYEE Table dropped.
```

## **INSERT:**

```
INSERT INTO EMPLOYEE VALUES(1, 'JANU', 25, 25000, 'IT')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(2, 'RAMU', 28, 40000, 'CSE')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(3, 'AJAY', 26, 55000, 'ECE')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(4, 'HARI', 27, 34000, 'IT')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(5, 'SAKI', 26, 43000, 'CSE')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(6, 'VIJAY', 25, 25000, 'IT')

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES(7, 'DEEPU', 27, 55000, 'ECE')

1 row(s) inserted.
```

### SELECT \* FROM EMPLOYEE

<b>EMID</b>	<b>ENAME</b>	AGE	SALARY	DEPT
4	HARI	27	34000	IT
5	SAKI	26	43000	CSE
1	JANU	25	25000	IT
3	AJAY	26	55000	ECE
2	RAMU	28	40000	CSE
6	VIJAY	25	25000	IT
7	DEEPU	27	55000	ECE

7 rows selected.

## **UPDATE:**

UPDATE EMPLOYEE SET AGE=24 WHERE EMID=1
1 row(s) updated.
UPDATE EMPLOYEE SET ENAME='AKASH' WHERE EMID=7
1 row(s) updated.

## **DELETE** command:

DELETE EMPLOYEE WHERE EMID=4

1 row(s) deleted.

## **SELECT:**

SELECT \* FROM EMPLOYEE

<b>EMID</b>	<b>ENAME</b>	AGE	SALARY	DEPT
5	SAKI	26	43000	CSE
1	JANU	24	25000	IT
3	AJAY	26	55000	ECE
2	RAMU	28	40000	CSE
6	VIJAY	25	25000	IT
7	AKASH	27	55000	ECE

6 rows selected.

## **DISTINCT:**

SELECT DISTINCT DEPT FROM EMPLOYEE ORDER BY DEPT

**DEPT** 

CSE

**ECE** 

IT

3 rows selected.

# WHERE clause – (Extracting specific rows)

```
SELECT ENAME, AGE, DEPT FROM EMPLOYEE WHERE SALARY>40000
```

ENAME AGE DEPT
SAKI 26 CSE
AJAY 26 ECE

**ECE** 

3 rows selected.

AKASH 27

# The AND Operator:

SELECT ENAME, AGE, EMID FROM EMPLOYEE WHERE SALARY>40000 AND DEPT='ECE'

ENAME AGE EMID

AJAY 26 3 AKASH 27 7

2 rows selected.

# The OR Operator:

SELECT ENAME, AGE, EMID FROM EMPLOYEE WHERE SALARY>40000 OR DEPT='ECE'

ENAME AGE EMID

SAKI 26 5 AJAY 26 3 AKASH 27 7

3 rows selected.

## ORDER BY - (Sorting the data)

# Ascending order

SELECT \* FROM EMPLOYEE ORDER BY ENAME

EMID ENAME AGE SALARY DEPT

3	AJAY	26	55000	ECE
7	AKASH	27	55000	ECE
1	JANU	24	25000	IT
2	RAMU	28	40000	CSE
5	SAKI	26	43000	CSE
6	VIJAY	25	25000	IT

6 rows selected.

# Descending order

SELECT \* FROM EMPLOYEE ORDER BY ENAME DESC

<b>EMID</b>	<b>ENAME</b>	AGE	SALARY	DEPT
6	VIJAY	25	25000	IT
5	SAKI	26	43000	CSE
2	RAMU	28	40000	CSE
1	JANU	25	25000	IT
4	HARI	27	34000	IT
7	DEEPU	27	55000	ECE
3	AJAY	26	55000	ECE

7 rows selected.

# TRUNCATE COMMAND:

TRUNCATE TABLE EMPLOYEE

Table truncated

DESC EMPLOYEE

TABLE EMPLOYEE

Column	Null?	Type
EMID	-	NUMBER
ENAME	-	VARCHAR2(30)
AGE	_	NUMBER

SALARY - NUMBER

DEPT - VARCHAR2(30)

5 rows selected.

## **SQL Functions:**

- The SQL functions serve the purpose of manipulating data items and returning a result.
- There are many built in functions included in SQL and can be classified as Group Functions and

#### **Scalar Functions.**

- Group Functions: o Functions that act on set of values are called group functions.
- **o** A group functions can takes entire column of data as its arguments and produces a single data item that summarizes the column.
- o Following are the SQL group functions.

Function	Description
AVG	Returns average value of,,N", ignoring NULL values
COUNT(expr)	Returns the number of rows where "expr" is not NULL
COUNT(*)	Returns the number of rows in the table including duplicates and those with NULL values
MIN	Returns minimum value of "expr"
MAX	Returns maximum value of "expr"
SUM	Returns sum of values ,,N"

```
CREATE TABLE EMPLOYEE(

ID NUMBER,
ENAME VARCHAR(30),
AGE NUMBER,
JOB VARCHAR(30),
CITY VARCHAR(30),
SALARY NUMBER
)

Table created.

INSERT INTO EMPLOYEE VALUES(7369, 'SMITH', 30, 'CLECK', 'PUNE', 25000)
1 row(s) inserted.
```

```
INSERT INTO EMPLOYEE VALUES(7587, 'ALIAN', 29, 'MANAGER', 'MUMBAI', 35000) 1 row(s) inserted.
```

INSERT INTO EMPLOYEE VALUES (7645, 'WALD', 28, 'MANAGER', 'MUMBAI', 35000) 1 row(s) inserted.

### **INSERT INTO EMPLOYEE**

VALUES(7854, 'FORD', 25, 'ANALYST', 'HYDERABAD', 65000)

1 row(s) inserted.

INSERT INTO EMPLOYEE VALUES (7456, 'TOMMY', 32, 'CLERK', 'PUNE', 26000) 1 row(s) inserted.

### INSERT INTO EMPLOYEE

VALUES(7895, 'ADAMS', 29, 'ANALYST', 'HYDERABAD', 55000)

1 row(s) inserted.

### INSERT INTO EMPLOYEE

VALUES(7774, 'HARRY', 25, 'SALESMAN', 'BANGLORE', 25000)

1 row(s) inserted.

### INSERT INTO EMPLOYEE

VALUES(7344, 'HARI', 27, 'SALESMAN', 'BANGLORE', 25000)

1 row(s) inserted.

### SELECT \* FROM EMPLOYEE

ID	<b>ENAME</b>	<b>AGE</b>	JOB	CITY	SALARY
7369	SMITH	30	CLECK	PUNE	25000
7645	WALD	28	MANAGER	MUMBAI	35000
7854	FORD	25	ANALYST	HYDERABAD	65000
7895	ADAMS	29	ANALYST	HYDERABAD	55000
7587	ALIAN	29	MANAGER	MUMBAI	35000
7344	HARI	27	SALESMAN	BANGLORE	25000
7456	TOMMY	32	CLERK	PUNE	26000
7774	HARRY	25	SALESMAN	BANGLORE	25000

8 rows selected.

# AVG () Function:

```
SELECT AVG(SALARY) FROM EMPLOYEE
AVG(SALARY)
36375
SELECT AVG(SALARY) FROM EMPLOYEE WHERE CITY='PUNE'
AVG(SALARY)
 25500
MAX () Function:
SELECT MAX(AGE) FROM EMPLOYEE
MAX(AGE)
32
MIN () Function:
SELECT MIN(AGE) FROM EMPLOYEE
MIN(AGE)
25
SUM () Function:
SELECT SUM(SALARY) FROM EMPLOYEE
SUM(SALARY)
291000
SELECT SUM(SALARY) FROM EMPLOYEE WHERE CITY='PUNE'
SUM(SALARY)
51000
```

```
COUNT () Function:
```

```
SELECT COUNT(ID) FROM EMPLOYEE
```

## COUNT(ID)

8

# COUNT (\*) Function:

```
SELECT COUNT(*) FROM EMPLOYEE
```

COUNT(\*)

8

SELECT JOB, COUNT(\*) FROM EMPLOYEE GROUP BY JOB

JOB	COUNT(*)	)
002	000111	

CLECK 1

ANALYST 2

SALESMAN 2

CLERK 1

MANAGER 2

5 rows selected.

# **GROUP BY (Grouping Result)**

SELECT JOB FROM EMPLOYEE GROUP BY JOB

**JOB** 

**CLECK** 

**ANALYST** 

**SALESMAN** 

**CLERK** 

MANAGER

5 rows selected.

# **SQL CONSTRAINTS**:

```
NOT NULL Constraint:
CREATE TABLE MYCONTACTS(
                  ID INT NOT NULL,
                  FNAME VARCHAR(225) NOT NULL,
                  LNAME VARCHAR(225) NOT NULL,
                  AGE INT,
                  CITY VARCHAR(225)
                  )
Table created.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 110, 'ROMY', 'MITTAL')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 110, 'JOHN', 'WICCOT')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
120, 'MANIK', 'SHAH', 25)
1 row(s) inserted.
SELECT * FROM MYCONTACTS
ID FNAME LNAME AGE CITY
110 ROMY
             MITTAL -
120 MANIK SHAH
                      25
110 JOHN
             WICCOT -
3 rows selected
UPDATE MYCONTACTS
SET AGE=35
WHERE AGE IS NULL
2 row(s) updated.
SELECT * FROM MYCONTACTS WHERE AGE IS NOT NULL
ID FNAME LNAME AGE CITY
110 ROMY
             MITTAL 35
```

```
120 MANIK SHAH
                       25 -
110 JOHN
             WICCOT 35
3 rows selected.
Using ALTER
ALTER TABLE MYCONTACTS MODIFY AGE INT NOT NULL
Table altered
INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 146, 'DEEP', 'MICCOT')
ORA-01400: cannot insert NULL into
("SQL_WDIPPFJSGRWBCNJQRPSLPIOLS"."MYCONTACTS"."AGE") ORA-06512: at
"SYS.DBMS_SQL", line 1721
EXPLANATION: Age cannot have null value because we are using NOT NULL
constraint
UNIQUE Constraints:
CREATE TABLE MYCONTACTS(
                   ID INT UNIQUE,
                   FNAME VARCHAR(225) NOT NULL,
                   LNAME VARCHAR(225) NOT NULL,
                   AGE INT DEFAULT 20,
                   CITY VARCHAR(225)
                   )
Table created.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
110, 'ROMY', 'MITTAL', 26)
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
120, 'MANIK', 'SHAH', 25)
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE, CITY) VALUES(
170, 'JOHN', 'WICCOT', 23, 'MUMBAI')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, CITY) VALUES(
150, 'TOMY', 'NITTAL', 'PUNJAB')
1 row(s) inserted.
```

```
SELECT * FROM MYCONTACTS
ID FNAME LNAME AGE
                             CITY
120 MANIK SHAH
                      25
170 JOHN
             WICCOT 23
                            MUMBAI
150 TOMY
            NITTAL
                      20
                           PUNJAB
110 ROMY
            MITTAL
                      26
4 rows selected.
Using ALTER
ALTER TABLE MYCONTACTS ADD UNIQUE(AGE)
Table altered.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
180, 'MFGIK', 'SHAH', 25)
ORA-00001: unique constraint
(SQL WDIPPFJSGRWBCNJQRPSLPIOLS.SYS C0058224263) violated ORA-06512:
at "SYS.DBMS SQL", line 1721
EXPLANATION: Age column should have unique values because we are
using unique constraint
PRIMARY KEY Constraints:
CREATE TABLE MYCONTACTS(
                  ID INT PRIMARY KEY,
                  FNAME VARCHAR(225) NOT NULL,
                  LNAME VARCHAR(225) NOT NULL,
                  AGE INT,
                  CITY VARCHAR(225)
                  )
Table created.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
110, 'ROMY', 'MITTAL', 26)
1 row(s) inserted.
```

```
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE, CITY) VALUES(
170, 'JOHN', 'WICCOT', 23, 'MUMBAI')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, CITY) VALUES(
150,'TOMY','NITTAL','PUNJAB')
1 row(s) inserted.
SELECT * FROM MYCONTACTS
ID
   FNAME LNAME AGE
                              CITY
110 ROMY
            MITTAL
                      26
170 JOHN
             WICCOT 23
                            MUMBAI
150 TOMY
           NITTAL -
                            PUNJAB
3 rows selected.
Using ALTER
ALTER TABLE MYCONTACTS DROP PRIMARY KEY
Table altered.
ALTER TABLE MYCONTACTS ADD PRIMARY KEY(ID, LNAME, AGE)
Table altered
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
110, 'MANIK', 'MITTAL', 26)
ORA-00001: unique constraint
(SQL RDNRFQQSURPAMAABCZVKCXWWE.SYS C0058291428) violated ORA-
06512: at "SYS.DBMS SQL", line 1721
EXPLANATION: The primary key constraint uniquely identifies each
record in a table.
FOREIGN KEY Constraint:
CREATE TABLE PRODUCT(
                 PID NUMBER PRIMARY KEY,
                 PNAME VARCHAR(30),
                 SNAME VARCHAR(30),
                 UPRICE NUMBER
                 )
```

```
Table created.
INSERT INTO PRODUCT VALUES(101, 'TV', 'ONIDA', 150)
1 row(s) inserted.
INSERT INTO PRODUCT VALUES(102, 'FRIDGE', 'SAMSUNG', 450)
1 row(s) inserted.
INSERT INTO PRODUCT VALUES(103, 'IPOD', 'APPLE', 75)
1 row(s) inserted.
SELECT * FROM PRODUCT
PID PNAME
               SNAME
                         UPRICE
     FRIDGE SAMSUNG 450
102
101
    TV
              ONIDA
                         150
103
     IPOD
              APPLE
                         75
3 rows selected.
CREATE TABLE ORDERS(
               OID NUMBER,
               PID NUMBER,
               TUNITS NUMBER,
               CUST VARCHAR(30)
Table created.
INSERT INTO ORDERS VALUES(5101,102,25,'INFOSYS')
1 row(s) inserted.
INSERT INTO ORDERS VALUES(5102,103,5,'SATYAM')
1 row(s) inserted.
INSERT INTO ORDERS VALUES(5103,101,10,'TCS')
1 row(s) inserted.
SELECT * FROM ORDERS
OID PID TUNITS
                     CUST
5103 101
          10
                   TCS
5102 103 5
                    SATYAM
5101 102 25
                   INFOSYS
```

```
3 rows selected.
```

## **Using ALTER**

```
ALTER TABLE ORDERS ADD FOREIGN KEY(PID) REFERENCES PRODUCT(PID) Table altered.
```

```
INSERT INTO ORDERS VALUES(5100,104,30,'WIPRO')
```

ORA-02291: integrity constraint (SQL\_VTTTNLDPUYHFJYGRKUNOWITKT.SYS\_C0058296906) violated - parent key not found ORA-06512: at "SYS.DBMS\_SQL", line 1721

EXPLANATION: The FOREIGN KEY constraint is used to prevent actions that would destroy links between tables.

### **DEFAULT Constraints:**

```
CREATE TABLE MYCONTACTS(

ID INT NOT NULL,
FNAME VARCHAR(225) NOT NULL,
LNAME VARCHAR(225) NOT NULL,
AGE INT DEFAULT 20,
CITY VARCHAR(225)
)

Table created.

INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 110, 'ROMY', 'MITTAL')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 110, 'JOHN', 'WICCOT')
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
120, 'MANIK', 'SHAH', 25)
1 row(s) inserted.
```

### SELECT \* FROM MYCONTACTS

### ID FNAME LNAME AGE CITY

```
110 ROMY MITTAL 20 -
110 JOHN WICCOT 20 -
120 MANIK SHAH 25 -
```

```
3 rows selected.
```

## **Using ALTER**

```
ALTER TABLE MYCONTACTS MODIFY CITY DEFAULT 'PARIS'
Table altered.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME) VALUES( 150, 'TOMY', 'NITTAL')
1 row(s) inserted.
SELECT * FROM MYCONTACTS
ID FNAME LNAME AGE CITY
110 ROMY
           MITTAL 20
150 TOMY
           NITTAL
                    20
                       PARIS
110 JOHN
           WICCOT 20
120 MANIK SHAH
                    25
4 rows selected.
```

**EXPLANATION:** The DEFAULT constraint is used to set a default value for a column.

## **CHECK Constraint:**

```
CREATE TABLE MYCONTACTS(

ID INT,

FNAME VARCHAR(225) NOT NULL,

LNAME VARCHAR(225) NOT NULL,

AGE INT CHECK(Age>=18),

CITY VARCHAR(225)
)

Table created.

Using ALTER

ALTER TABLE MYCONTACTS ADD CHECK(ID<5)

Table altered.

INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
1, 'ROMY', 'MITTAL', 26)
```

```
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE) VALUES(
3, 'MANIK', 'SHAH', 24)
1 row(s) inserted.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE, CITY) VALUES(
5, 'JOHN', 'WICCOT', 18, 'MUMBAI')
1 row(s) inserted.
SELECT * FROM MYCONTACTS
ID FNAME LNAME AGE
                               CITY
3
    MANIK SHAH
                       24
1
    ROMY
             MITTAL 26
5
    JOHN
             WICCOT 18
                             MUMBAI
3 rows selected.
INSERT INTO MYCONTACTS(ID, FNAME, LNAME, AGE, CITY) VALUES(
8, 'JOHN', 'WICCOT', 18, 'MUMBAI')
ORA-02290: check constraint
(SQL VTTTNLDPUYHFJYGRKUNOWITKT.SYS C0058298380) violated ORA-06512:
at "SYS.DBMS SQL", line 1721
EXPLANATION: The CHECK constraint is used to limit the value range
that can be placed in a column.
TABLE Constraints:
• When a constraint is applied to a group of columns of the table, it is called a table constraint.
• Column constraint is defined along with the end of the column.
• Table constraints are defined at the end of the table.
CREATE TABLE EMPLOYEE(
                   EMID NUMBER,
                   ENAME VARCHAR2(30),
                   AGE NUMBER,
                   SALARY NUMBER,
                   DEPT VARCHAR2(30) NOT NULL,
                   PRIMARY KEY(ENAME, DEPT)
```

Table created.

### **DESCRIBE EMPLOYEE**

### TABLE EMPLOYEE

```
Null?
                         Type
Column
EMID
                    NUMBER
ENAME
         NOT NULL VARCHAR2(30)
AGE
                    NUMBER
SALARY -
                    NUMBER
DEPT
         NOT NULL VARCHAR2(30)
5 rows selected.
JOINS
INNER EQUI JOIN:
CREATE TABLE PRODUCT(
                 PID NUMBER PRIMARY KEY,
                 PNAME VARCHAR(30),
                 SNAME VARCHAR(30),
                 UPRICE NUMBER
                 )
Table created.
INSERT INTO PRODUCT VALUES(101, 'TV', 'ONIDA', 150)
1 row(s) inserted.
INSERT INTO PRODUCT VALUES(102, 'FRIDGE', 'SAMSUNG', 450)
1 row(s) inserted.
INSERT INTO PRODUCT VALUES(103, 'IPOD', 'APPLE', 75)
1 row(s) inserted.
INSERT INTO PRODUCT VALUES(104, 'MOBILE', 'NOKIA', 100)
```

```
SELECT * FROM PRODUCT
                         UPRICE
PID PNAME
               SNAME
101
    TV
              ONIDA
                         150
102
     FRIDGE
              SAMSUNG 450
103
    IPOD
              APPLE
                         75
104
     MOBILE NOKIA
                         100
4 rows selected
CREATE TABLE ORDERS(
               OID NUMBER,
               PID NUMBER,
               TUNITS NUMBER,
               CUST VARCHAR(30),
               FOREIGN KEY(PID) REFERENCES PRODUCT(PID)
Table created.
INSERT INTO ORDERS VALUES(5100,104,30,'INFOSYS')
1 row(s) inserted.
INSERT INTO ORDERS VALUES(5101,102,25,'SATYAM')
1 row(s) inserted.
INSERT INTO ORDERS VALUES(5102,103,5,'WIPRO')
1 row(s) inserted.
INSERT INTO ORDERS VALUES(5103,101,10,'TCS')
1 row(s) inserted.
SELECT * FROM ORDERS
OID PID TUNITS
                    CUST
```

5100	104	30	INFOSYS
5101	102	25	SATYAM
5102	103	5	WIPRO
5103	101	10	TCS

4 rows selected.

SELECT O.OID, P.PNAME, P.UPRICE, P.SNAME, O.TUNITS FROM PRODUCT P, ORDERS O WHERE O.PID=P.PID

OID	<b>PNAME</b>	UPRICE	SNAME	TUNITS
5100	MOBILE	100	NOKIA	30
5101	FRIDGE	450	SAMSUNG	25
5102	IPOD	75	APPLE	5
5103	TV	150	ONIDA	10

4 rows selected.