

# AIR LINES QUALITY CONTROL AND INFORMATION MANAGEMENT SYSTEM

**ABSTRACT:**

This is project “Air lines quality and information management system”. Product quality has entered the consciousness of organizations with a vengeance. It has become crystal clear that high-quality products have a distinct advantage in the market place, that market share can be gained or lost over the quality issue. Therefore, quality is a competitive priority. Quality is the only factor that ensures an organization's survival and growth. Quality focuses on meeting consumer need, meeting the competition, improving continuously and extending these concerns to all phases of business. Today, it has been well understood by managers that the real price of poor quality is lost consumers and ultimately, the death of an organization. Therefore, to be successful in today's business environment, organizations must pay attention to quality. Hence, a systematic procedure has to be evolved and followed and different concepts of quality management have to be understood clearly for designing and executing the quality management programme effectively and every information regarding the product should be crystal clear and this project gives us the quality and information about the product so the product can be redesigned again for further improvement and development.

## REQUIREMENT ANALYSIS

### List of tables:

- ASSESS
- COMPANY
- FEEDBACK
- GIVES
- PRODUCT
- SENDS
- TEST

### List of attributes with their domain types:

#### Company:

Company id:cid -Number()

Company name:cname-varchar()

Phone no:p\_no-number(10)

Email: email\_id -varchar(20)

#### Product:

Product id: pid -number(5)

Product name: p\_name-varchar(20)

Type of product: type -varchar(15)

Cost of product: cost-number(6)

Quantity :quantity-number(5)

#### Test:

Tester id: tid-number(5)

Test Manager:pilot/tester-varchar(5)

Quality report:quality-varchar(10)

Specified in: specified\_in -varchar(20)

Condition: condition-varchar(30)

Feedback:

Feedback id: fid-number(5)

Product id: pid-number(5)

Product name=P\_name-varchar(15)

Message: message-varchar(30)

Rating: rating-number(3,1)

Sends:

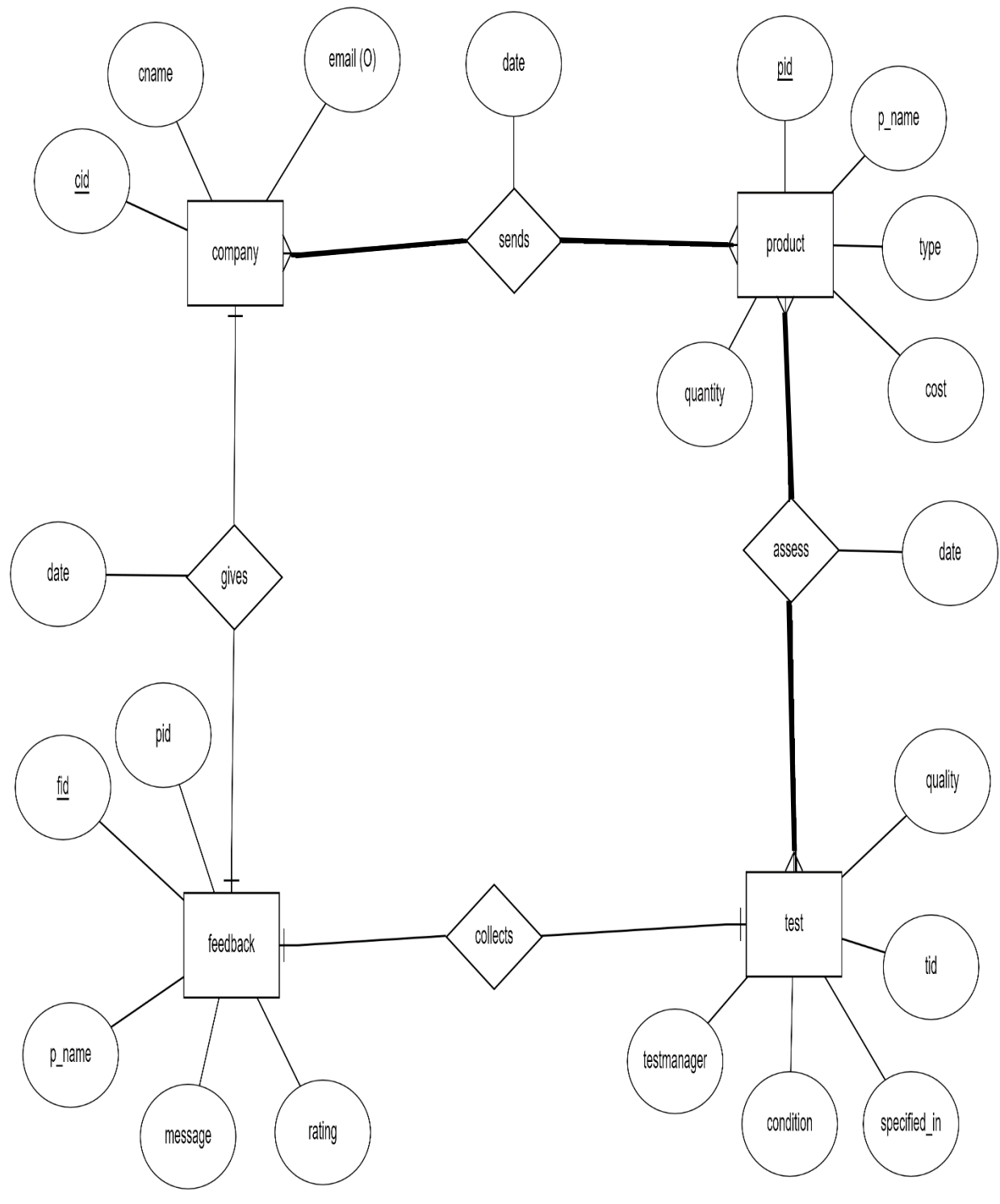
Date: day-date

Gives:

Date : day-date

Assess:

Date : day-date

**ER DIAGRAM:**

## Mapping Cardinalities and Participation Constraints:

A company can send many products and many products can be received by many companies so many to many mapping cardinalities between company and product.

A product can be tested by many testers and many testers can assess many products so, many to many mapping cardinalities between product and tests.

A tester can send only one feedback and feedback can be received only one tester so one to one mapping cardinality between feedback and test.

A tester can send only one feedback and feedback can be received only one tester so one to one mapping cardinality between feedback and test.

Only one feedback can be sent to company and a company can send only the report to it. so, one to one cardinality between feedback and company.

A company should send a product so that implies total participation

A product should be sent to test so that implies total participation

## **DDL COMMANDS:**

```
SQL> create table company(cid number(5) primary key,cname  
varchar(20),email varchar(256),pno number(10));
```

Table created.

```
SQL> create table product(pid number(5) primary key,p_name  
varchar(35), type varchar(30),cost number(5,5),quantity number(5));
```

Table created.

```
SQL> create table test(tid number(5) primary key,quality  
varchar(30),testmanager varchar(20),condition  
varchar(20),specified_in varchar2(30));
```

Table created.

```
SQL> create table feedback(fid number(5) primary key,pid  
number(5),p_name varchar2(35),message varchar(30),rating  
number(3,1));
```

Table created.

```
SQL> create table sends(cid number(5),pid number(5),day  
date,primary key(cid,pid),foreign key(cid) references  
company(cid),foreign key(pid) references product(pid));
```

Table created.

```
SQL> create table assess(pid number(5),tid number(5),day  
date,primary key(pid,tid),foreign key(pid) references  
product(pid),foreign key(tid) references test(tid));
```

Table created.

```
SQL> alter table feedback add(tid number(5),
```

```
2 foreign key(tid) references test(tid),foreign key(pid) references  
product(pid));
```

Table altered.

```
SQL> create table gives( cid number(5) ,fid number(5),primary
key(cid,fid),foreign key(cid) references company(cid),foreign key(fid)
references feedback(fid));
```

Table created.

```
SQL> alter table gives add (day date);
```

Table altered.

```
SQL> alter table company modify( email varchar2(30));
```

Table altered.

```
SQL> alter table test modify(quality varchar2(15),condition
varchar2(18), specified_in varchar(15),testmanager varchar(15));
```

Table altered.

```
SQL> select * from tab;
```

TNAME	TABTYPE	CLUSTERID
-------	---------	-----------

ASSESS	TABLE	
COMPANY	TABLE	
FEEDBACK	TABLE	
GIVES	TABLE	
PRODUCT	TABLE	
SENDS	TABLE	
TEST	TABLE	

7 rows selected.

```
SQL> desc ASSESS;
```

Name	Null?	Type
------	-------	------

PID	NOT NULL	NUMBER(5)
TID	NOT NULL	NUMBER(5)
DAY		DATE



SQL> desc Company;

Name	Null?	Type
------	-------	------

CID	NOT NULL	NUMBER(5)
CNAME		VARCHAR2(20)
EMAIL		VARCHAR2(30)
PNO		NUMBER(10)

SQL> desc feedback;

Name	Null?	Type
------	-------	------

FID	NOT NULL	NUMBER(5)
PID		NUMBER(5)
P_NAME		VARCHAR2(20)
MESSAGE		VARCHAR2(15)
RATING		NUMBER(3,1)
TID		NUMBER(5)

SQL> desc product;

Name	Null?	Type
------	-------	------

PID	NOT NULL	NUMBER(5)
P_NAME		VARCHAR2(20)
TYPE		VARCHAR2(20)
COST		NUMBER(10)
QUANTITY		NUMBER(10)

SQL> desc test;

Name	Null?	Type
------	-------	------

TID	NOT NULL	NUMBER(5)
QUALITY		VARCHAR2(15)
TESTMANAGER		VARCHAR2(15)
CONDITION		VARCHAR2(18)
SPECIFIED_IN		VARCHAR2(15)

SQL> desc sends;

Name	Null?	Type
CID	NOT NULL	NUMBER(5)
PID	NOT NULL	NUMBER(5)
DAY		DATE

SQL> desc gives;

Name	Null?	Type
CID	NOT NULL	NUMBER(5)
FID	NOT NULL	NUMBER(5)
DAY		DATE

## DML COMMANDS:

```
SQL> insert into company values(&cid,&cname','&email',&pno);
```

```
Enter value for cid: 956
```

```
Enter value for cname: cisco
```

```
Enter value for email: cisco956@gmail.com
```

```
Enter value for pno: 9632145870
```

```
old 1: insert into company values(&cid,&cname','&email',&pno)
```

```
new 1: insert into company
```

```
values(956,'cisco','cisco956@gmail.com',9632145870)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for cid: 875
```

```
Enter value for cname: akdeveloper
```

```
Enter value for email: akdevel875@gmail.com
```

```
Enter value for pno: 9856471233
```

```
old 1: insert into company values(&cid,&cname','&email',&pno)
```

```
new 1: insert into company
```

```
values(875,'akdeveloper','akdevel875@gmail.com',9856471233)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for cid: 741
```

```
Enter value for cname: kingfisher
```

```
Enter value for email: king@gmail.com
```

```
Enter value for pno: 7894563210
```

```
old 1: insert into company values(&cid,&cname','&email',&pno)
```

```
new 1: insert into company
```

```
values(741,'kingfisher','king@gmail.com',7894563210)
```

```
1 row created.
```

```
SQL> select * from company;
```

CID	CNAME	EMAIL	PNO
956	cisco	cisco956@gmail.com	9632145870
875	akdeveloper	akdevel875@gmail.com	9856471233
741	kingfisher	king@gmail.com	7894563210

## Title: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

```
SQL> insert into product values(&pid,'&p_name','&type','&cost','&quantity');
Enter value for pid: 312
Enter value for p_name: wheels
Enter value for type: exterior
Enter value for cost: 65
Enter value for quantity: 54
old 1: insert into product values(&pid,'&p_name','&type','&cost','&quantity)
new 1: insert into product values(312,'wheels','exterior',65,54)
```

1 row created.

```
SQL> /
Enter value for pid: 895
Enter value for p_name: controller
Enter value for type: interior
Enter value for cost: 85203
Enter value for quantity: 500
old 1: insert into product values(&pid,'&p_name','&type','&cost','&quantity)
new 1: insert into product values(895,'controller','interior',85203,500)
```

1 row created.

```
SQL> /
Enter value for pid: 951
Enter value for p_name: microphones
Enter value for type: telecommunication
Enter value for cost: 7896
Enter value for quantity: 50
old 1: insert into product values(&pid,'&p_name','&type','&cost','&quantity)
new 1: insert into product
values(951,'microphones','telecommunication',7896,50)
```

```
SQL> select * from product;
```

PID	P_NAME	TYPE	COST	QUANTITY
312	wheels	exterior	65	54
895	controller	interior	85203	500
951	microphones	telecommunication	7896	50

## Title: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

```
SQL> insert into test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in');
Enter value for tid: 952
Enter value for testmanager: pilot
Enter value for specified_in: network issues
old 1: insert into test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new 1: insert into test values(952,'Not assigned','pilot','not checked','network
issues')
```

1 row created.

```
SQL> /
Enter value for tid: 856
Enter value for testmanager: supervisor
Enter value for specified_in: fitting
old 1: insert into test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new 1: insert into test values(856,'Not assigned','supervisor','not
checked','fitting')
```

1 row created.

```
SQL> /
Enter value for tid: 8541
Enter value for testmanager: tester
Enter value for specified_in: propulsion
old 1: insert into test values(&tid,'Not assigned','&testmanager','not
checked','&specified_in')
new 1: insert into test values(8541,'Not assigned','tester','not
checked','propulsion')
```

1 row created.

```
SQL> select * from test;
```

TID	QUALITY	TESTMANAGER	CONDITION	SPECIFIED_IN
952	Not assigned	pilot	not checked	network issues
856	Not assigned	supervisor	not checked	fitting
8541	Not assigned	tester	not checked	propulsion

## Title: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

```
SQL> insert into feedback values(&fid,&pid,&p_name','not checked',7,&tid);
Enter value for fid: 865
Enter value for pid: 312
Enter value for p_name: wheels
Enter value for tid: 856
old 1: insert into feedback values(&fid,&pid,&p_name','not checked',7,&tid)
new 1: insert into feedback values(865,312,'wheels','not checked',7,856)
```

1 row created.

```
SQL> /
Enter value for fid: 897
Enter value for pid: 895
Enter value for p_name: controller
Enter value for tid: 952
old 1: insert into feedback values(&fid,&pid,&p_name','not checked',7,&tid)
new 1: insert into feedback values(897,895,'controller','not checked',7,952)
```

1 row created.

```
SQL> /
Enter value for fid: 7410
Enter value for pid: 951
Enter value for p_name: microphones
Enter value for tid: 8541
old 1: insert into feedback values(&fid,&pid,&p_name','not checked',7,&tid)
new 1: insert into feedback values(7410,951,'microphones','not
checked',7,8541)
```

1 row created.

```
SQL> select * from feedback;
```

FID	PID	P_NAME	MESSAGE	RATING	TID
865	312	wheels	not checked	7	856
897	895	controller	not checked	7	952
7410	951	microphones	not checked	7	8541

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```
SQL> insert into sends values(&cid,&pid,&day');
Enter value for cid: 956
Enter value for pid: 895
Enter value for day: 15-sep-2000
old 1: insert into sends values(&cid,&pid,&day')
new 1: insert into sends values(956,895,'15-sep-2000')
```

1 row created.

```
SQL> /
Enter value for cid: 875
Enter value for pid: 312
Enter value for day: 09-oct-2003
old 1: insert into sends values(&cid,&pid,&day')
new 1: insert into sends values(875,312,'09-oct-2003')
```

1 row created.

```
SQL> /
Enter value for cid: 741
Enter value for pid: 951
Enter value for day: 09-oct-2000
old 1: insert into sends values(&cid,&pid,&day')
new 1: insert into sends values(741,951,'09-oct-2000')
```

1 row created.

```
SQL> /
Enter value for cid: 09
Enter value for pid: 77
Enter value for day: 18-oct-2003
old 1: insert into sends values(&cid,&pid,&day')
new 1: insert into sends values(09,77,'18-oct-2003')
insert into sends values(09,77,'18-oct-2003')
```

\*

ERROR at line 1:

ORA-02291: integrity constraint (MYDBMS.SYS\_C0011744) violated - parent  
key not  
found

SQL> select \* from sends;

CID	PID DAY
956	895 15-SEP-00
875	312 09-OCT-03
741	951 09-OCT-00

SQL> insert into assess values(&pid,&tid,'&day');

Enter value for pid: 312

Enter value for tid: 856

Enter value for day: 15-oct-2000

old 1: insert into assess values(&pid,&tid,'&day')

new 1: insert into assess values(312,856,'15-oct-2000')

1 row created.

SQL> /

Enter value for pid: 895

Enter value for tid: 8541

Enter value for day: 07-dec-2004

old 1: insert into assess values(&pid,&tid,'&day')

new 1: insert into assess values(895,8541,'07-dec-2004')

1 row created.

SQL> /

Enter value for pid: 951

Enter value for tid: 952

Enter value for day: 01-oct-2001

old 1: insert into assess values(&pid,&tid,'&day')

new 1: insert into assess values(951,952,'01-oct-2001')

1 row created.

SQL> select \* from assess;

PID	TID DAY
312	856 15-OCT-00
895	8541 07-DEC-04
951	952 01-OCT-01



```
SQL> insert into gives values(&cid,&fid,'&day');
```

```
Enter value for cid: 956
```

```
Enter value for fid: 865
```

```
Enter value for day: 25-sep-2000
```

```
old 1: insert into gives values(&cid,&fid,'&day')
```

```
new 1: insert into gives values(956,865,'25-sep-2000')
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for cid: 875
```

```
Enter value for fid: 897
```

```
Enter value for day: 07-dec-2005
```

```
old 1: insert into gives values(&cid,&fid,'&day')
```

```
new 1: insert into gives values(875,897,'07-dec-2005')
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for cid: 741
```

```
Enter value for fid: 7410
```

```
Enter value for day: 15-mar-2004
```

```
old 1: insert into gives values(&cid,&fid,'&day')
```

```
new 1: insert into gives values(741,7410,'15-mar-2004')
```

```
1 row created.
```

```
SQL> select * from gives;
```

CID	FID DAY
956	865 25-SEP-00
875	897 07-DEC-05
741	7410 15-MAR-04