



Storing query commands

Using VIEWS



Preamble

- To know the context of this presentation, look at
 - 'Introduction to sample case study – Joe's Yard'



VIEWS

- Store a compound statement as a new virtual set of rows.
- These can be used for
 - Ensuring privacy
 - Limiting access (security)
 - Making further compound queries simpler.




Customising views

- Sometimes I want to show aspects of my data to other users and even allow them to update them.
- I can create a VIEW of the data for manipulation by other users.
- E.g. I want the customer to be able to see certain information from the stock table, but not all of it.
- I can create a view and let customers SELECT from it.



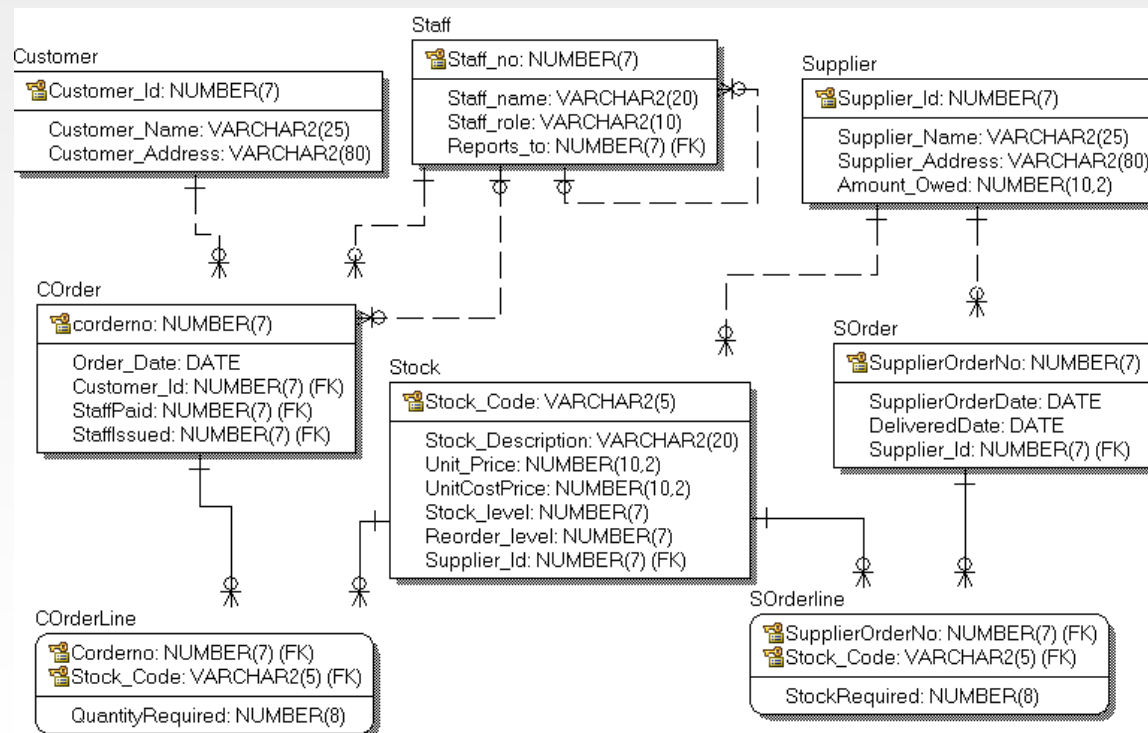
Views

- CREATE VIEW CUSTSTOCK AS
(select stock_code, stock_description, unit_price, stock_level from stock);
- Grant select on custstock to public;
 - Now everyone can query these fields.

Stock	
	Stock_Code: VARCHAR2(5)
Stock_Description: VARCHAR2(20)	
Unit Price: NUMBER(10,2)	
Stock_Level: NUMBER(7)	



The tables...





Possible views

- The foreman needs to see the set of stock items that needs to be issued for an outstanding order.
 - stock code, stock description, quantityrequired and corderno of any order that has been paid for, but not issued.

CREATE or replace VIEW waitingorders AS

```
SELECT stock_code, stock_description,  
       quantityrequired, corderno, staffissued
```

```
FROM corderline
```

```
JOIN stock using (stock_code)
```

```
JOIN corder using (corderno)
```

```
where staffpaid is not null and staffissued is null;
```



Possible views

- He can see the details as follows:
 - `SELECT * from waitingorders;`
 - Or
 - `SELECT * from waitingorders where corderno = 108;`
- He needs to be able to ***update*** staffissued.
 - Don't do this using a view!!!
- Views can be DROPPed or CREATE or REPLACEd.