

(Free) Sample 10

Taken from:

Question Bank 5: SQL

Knowledge River Ltd



(Free) Sample 10

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Below are three examples...

Question: Complete the following blanks...

Each database is made up from a series of _____ which are ownership containers for one or more database _____ – each of which is explicitly created (and so owned) by a _____. To access and use a database each user must have _____ – which can be of two types: _____ - _____ (which are general rights) and _____ - _____ (which apply to named items in the database). These rights may be packaged together as _____ to aid database security administration.

Solution: Complete the following blanks...

Each database is made up from a series of SCHEMAS which are ownership containers for one or more database OBJECTS – each of which is explicitly created (and so owned) by a USER. To access and use a database each user must have PRIVILEGES – which can be of two types: SYSTEM-LEVEL (which are general rights) and OBJECT-LEVEL (which apply to named items in the database). These rights may be packaged together as ROLES to aid database security administration.

Question: For each of the following write **VALID** or **INVALID**:

| | |
|---|--|
| SELECT Supplier FROM Electricals | |
| SELECT Supplier, Description FROM Electricals | |
| SELECT COUNT (Supplier) FROM Electricals | |
| SELECT Supplier, COUNT (Description) FROM Electricals | |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals | |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals HAVING AVG(Unit_Price) > 50.00 | |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals GROUP BY Supplier | |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals GROUP BY Supplier HAVING Description = 'Kettle' | |

Solution: For each of the following write **VALID** or **INVALID**:

| | |
|---|---------|
| SELECT Supplier FROM Electricals | VALID |
| SELECT Supplier, Description FROM Electricals | VALID |
| SELECT COUNT (Supplier) FROM Electricals | VALID |
| SELECT Supplier, COUNT (Description) FROM Electricals | INVALID |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals | INVALID |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals HAVING AVG(Unit_Price) > 50.00 | INVALID |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals GROUP BY Supplier | VALID |
| SELECT Supplier, MIN(Unit_Price), MAX(Unit_Price) FROM Electricals GROUP BY Supplier HAVING Description = 'Kettle' | INVALID |

Question: Write the SQL code to satisfy the following requirements:

- List the Suppliers of all CD or DVD players.

- List the descriptions of all items over £100 that sold under 100 units

- List the unit sales of any TV from Looks Good costing over £500

- List the unit sales of any CD or DVD from *Sounds Good* (but not the *Film Factory*) costing over £50

Solution: Write the SQL code to satisfy the following requirements:

- List the Suppliers of all CD or DVD players.

```
SELECT Supplier
FROM Electricals
WHERE Description LIKE '%CD%' OR Description LIKE '%DVD%'
```

- List the descriptions of all items over £100 that sold under 100 units

```
SELECT Description
FROM Electricals
WHERE Unit_Price > 100 AND Units_Sold < 100
```

- List the unit sales of any TV from Looks Good costing over £500

```
SELECT Unit_Sales
FROM Electricals
WHERE Description LIKE '%TV%'
AND Supplier = 'Looks Good'
AND Unit_Price > 500
```

- List the unit sales of any CD or DVD from *Sounds Good* (but not the *Film Factory*) costing over £50

```
SELECT Unit_Sales
FROM Electricals
WHERE Description LIKE '%CD%' OR Description LIKE '%DVD%'
AND Supplier = 'Looks Good' AND Supplier NOT IN ('Film Factory')
AND Unit_Price > 50
```