

Grading Rubric: Pedal Works — Service and Sales Analysis

Schema: bikeshop | 8 questions | 100 points total

Question Requirements

Q	Pts	Techniques	Required tables	Required fields	Clauses
1	8	select, where	bikeshop.customers	customers.firstName, customers.lastName, customers.email	WHERE
2	8	select, where, order_by	bikeshop.bikes	bikes.brand, bikes.model, bikes.bikeType, bikes.purchasePrice	WHERE, ORDER BY
3	8	select, where, like	bikeshop.parts	parts.partName, parts.partNumber, parts.category, parts.unitCost	WHERE
4	8	select, where	bikeshop.employees	employees.firstName, employees.lastName, employees.role, employees.hourlyRate	WHERE
5	12	join, where, order_by	bikeshop.repairOrders, bikeshop.employees	repairOrders.repairOrderId, repairOrders.dropOffDate, repairOrders.status, employees.firstName, employees.lastName	JOIN, WHERE, ORDER BY
6	12	join, group_by, aggregate	bikeshop.stores, bikeshop.repairOrders	stores.storeName, stores.city, repairOrders.repairOrderId	JOIN, GROUP BY
7	12	join, group_by, aggregate, having	bikeshop.bikes	bikes.brand, bikes.bikeId, bikes.purchasePrice	GROUP BY
8	32	join, group_by, aggregate, having, order_by	bikeshop.customers, bikeshop.bikes, bikeshop.repairOrders, bikeshop.repairItems	customers.firstName, customers.lastName, customers.city, repairOrders.repairOrderId, repairItems.lineTotal	JOIN, GROUP BY, ORDER BY

Deduction Schedule

Each question starts at full credit. The deductions below are applied against that question's point value and cannot take it below zero.

Issue	Deduction
Required table missing from the query	-3 per table
Required field missing from the SELECT list	-2 per field

Issue	Deduction
Required WHERE condition missing or using the wrong operator	-3 per condition
WHERE clause omitted entirely when one is required	-5
JOIN omitted when the question requires one	-5
GROUP BY omitted when the question requires one	-4
ORDER BY omitted when one is required	-4
ORDER BY on the wrong field	-2 per field
ORDER BY in the wrong direction	-1 per field

Reference Solutions

For instructor and TA use. A student answer that differs from the reference but returns the correct result set earns full credit.

Q1 (8 pts)

```
SELECT customers.firstName, customers.lastName, customers.email FROM bikeshop.customers WHERE customers.city = 'O'
```

Q2 (8 pts)

```
SELECT bikes.brand, bikes.model, bikes.bikeType, bikes.purchasePrice FROM bikeshop.bikes WHERE bikes.bikeType = 'M'
```

Q3 (8 pts)

```
SELECT parts.partName, parts.partNumber, parts.category, parts.unitCost FROM bikeshop.parts WHERE parts.partName
```

Q4 (8 pts)

```
SELECT employees.firstName, employees.lastName, employees.role, employees.hourlyRate FROM bikeshop.employees WHE
```

Q5 (12 pts)

```
SELECT repairOrders.repairOrderId, repairOrders.dropOffDate, repairOrders.status, employees.firstName, employees.
```

Q6 (12 pts)

```
SELECT stores.storeName, stores.city, COUNT(repairOrders.repairOrderId) AS totalRepairOrders FROM bikeshop.stores
```

Q7 (12 pts)

```
SELECT bikes.brand, COUNT(bikes.bikeId) AS totalBikes, AVG(bikes.purchasePrice) AS avgPurchasePrice FROM bikeshop
```

Q8 (32 pts)

```
SELECT customers.firstName, customers.lastName, customers.city, COUNT(DISTINCT repairOrders.repairOrderId) AS tot
```