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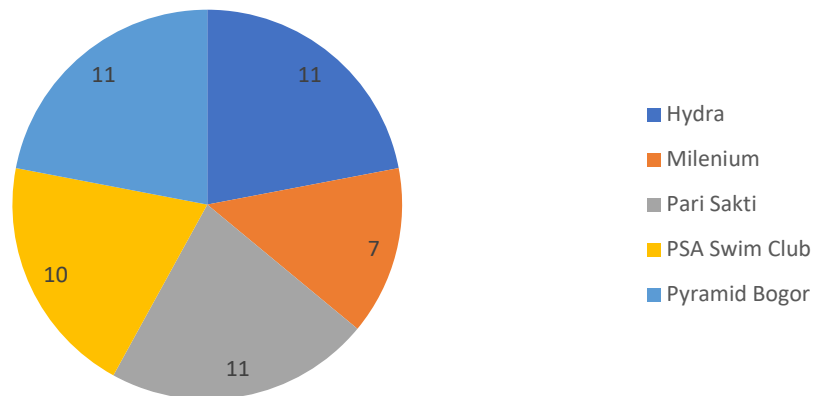
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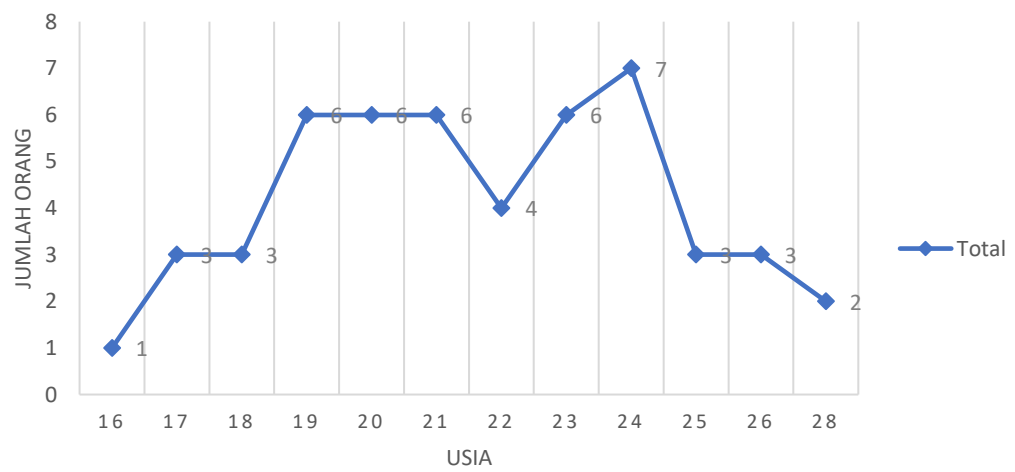
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1. Responden Kuesioner

Club Responden



Usia Responden



2. Pertanyaan Kuesioner

Operasional Variabel X1

Variabel	Dimensi	Indikator	Nomor Item
Kompetensi Pelatih X1	Dimensi Teknis (Jang et al., 2024)	Saya memahami prinsip biomekanika renang seperti hidrodinamika dan efisiensi gerak secara mendalam.	X1.1
		Saya mampu menganalisis data fisiologi atlet (seperti ambang laktat atau sistem energi) untuk kebutuhan program.	X1.2
		Saya secara rutin memperbarui pengetahuan saya tentang literasi sains olahraga terbaru.	X1.3
	Dimensi Praktis (Li et al., 2024)	Saya mampu menyusun menu latihan harian yang sistematis dan terukur bagi atlet. (<i>Sprint</i> , <i>Endurance</i> , <i>Drill</i> , <i>Dll</i>)	X1.4
		Saya memiliki kemahiran dalam mengoperasikan perangkat digital atau sensor saat sesi latihan berlangsung.	X1.5
		Saya mampu menyesuaikan intensitas latihan berdasarkan perkembangan dan kondisi spesifik setiap atlet.	X1.6
		Saya menyampaikan instruksi teknis kepada atlet dengan	X1.7

Variabel	Dimensi	Indikator	Nomor Item
	Dimensi Relasional (Zajonz et al., 2024)	bahasa yang jelas dan mudah dipahami.	
		Saya menggunakan pendekatan psikologis untuk menjaga motivasi atlet di tingkat optimal.	X1.8
		Saya membimbing atlet agar memahami pentingnya metrik data dalam peningkatan prestasi mereka.	X1.9

Operasional Variabel X2

Variabel	Dimensi	Indikator	Nomor Item
<i>Technology Adaptability</i> (X2)	Dimensi Ekspektasi Kinerja (Düking et al., 2025)	Saya percaya teknologi digital meningkatkan akurasi evaluasi dibandingkan metode manual.	X2.1
		Saya yakin penggunaan alat digital memberikan keuntungan kompetitif bagi atlet saya.	X2.2
		Saya merasa teknologi membantu atlet mencapai target waktu dengan lebih cepat dan terukur.	X2.3

Variabel	Dimensi	Indikator	Nomor Item
	Dimensi Ekspektasi Usaha (Mascret et al., 2025)	Saya merasa perangkat digital saat ini praktis untuk digunakan di pinggir kolam.	X2.4
		Saya merasa visualisasi pada aplikasi olahraga seperti grafik atau tabel akan terasa lebih mudah dibaca.	X2.5
		Saya rasa memahami cara kerja aplikasi olahraga dan sistem yang baru tidak membutuhkan waktu lama.	X2.6
	Dimensi Kondisi Fasilitas & Sikap (Al Balushi et al., 2023)	Saya mendapatkan dukungan sumber daya dari klub untuk menggunakan teknologi terbaru.	X2.7
		Saya bersedia meninggalkan metode manual demi akurasi sistem data digital.	X2.8
		Saya secara aktif mencari informasi mengenai tren teknologi olahraga terbaru untuk diterapkan.	X2.9

Operasional Variabel X3

Variabel	Dimensi	Indikator	Nomor Item
Variabel <i>Data-Driven</i>		Saya rutin memantau indikator kunci seperti <i>stroke</i>	X3.1

Variabel	Dimensi	Indikator	Nomor Item
Coaching (X3)	Dimensi Akuisisi Data (Puce et al., 2025)	<i>rate</i> dan <i>velocity</i> di setiap sesi.	
		Saya mewajibkan atlet menggunakan perangkat sensor digital di setiap latihan inti.	X3.2
		Saya secara berkala mendokumentasikan rekaman video teknik untuk analisis mendalam.	X3.3
	Dimensi Interpretasi Data (Olaniyan et al., 2023)	Saya memanfaatkan analisis berbasis kecerdasan buatan (AI) untuk memprediksi puncak performa atlet.	X3.4
		Saya rutin membandingkan tren statistik latihan atlet tiap bulan.	X3.5
		Saya memanfaatkan hasil grafik tren atlet untuk melakukan evaluasi harian atlet.	X3.6
	Dimensi Implementasi Strategis (Madrigal-Cerezo et al., 2026)	Saya mengubah menu latihan harian jika data menunjukkan atlet mengalami kelelahan berlebih.	X3.7
		Penentuan strategi <i>split time</i> saat lomba didasarkan pada statistik terbaik atlet.	X3.8

Variabel	Dimensi	Indikator	Nomor Item
		Saya menyesuaikan fokus latihan teknik berdasarkan data efisiensi kayuhan yang tercatat.	X3.9

Operasional Variabel Y

Variabel	Dimensi	Indikator	Nomor Item
Variabel Kinerja Pelatih (Y)	Dimensi Efektivitas Feedback (Callinan et al., 2023)	Saya memberikan umpan balik yang membantu atlet memperbaiki teknik dengan cepat.	Y.1
		Instruksi yang saya berikan mudah dipahami dan diterapkan oleh atlet di kolam.	Y.2
		Saya menggunakan data riil hasil latihan untuk memberikan umpan balik kepada atlet.	Y.3
	Dimensi Objektivitas Evaluasi (Dello Iacono et al., 2025)	Saya mengevaluasi performa atlet berdasarkan data metrik secara berkala.	Y.4
		Saya menentukan nomor spesialisasi atlet menggunakan data atlet saat latihan.	Y.5

Variabel	Dimensi	Indikator	Nomor Item
		Saya menetapkan target performa lomba berdasarkan analisis data latihan atlet.	Y.6
	Dimensi Prediksi Performa dan Penetapan Target (Staunton et al., 2024)	Saya menggunakan data Start15m untuk memprediksi performa atlet.	Y.7
		Saya menggunakan data In5m untuk menyusun program latihan atlet.	Y.8
		Saya menggunakan data Out 10m untuk menetapkan target performa atlet.	Y.9

3. Tabel RMSE_PLS VS RMSE_LM

	Q ² PREDICT	PLS-SEM_RMSE	PLS-SEM_MAE	LM_RMSE
X3.1	0.478	0.946	0.704	1.197
X3.2	0.386	1.055	0.861	1.246
X3.3	0.551	0.874	0.705	1.264
X3.4	0.306	1.048	0.841	1.453
X3.5	0.516	0.869	0.671	1.225
X3.6	0.283	1.040	0.803	1.432
X3.7	0.566	0.900	0.759	1.297
X3.8	0.567	0.901	0.671	1.513
X3.9	0.586	0.873	0.626	0.987
Y1.1	0.553	0.906	0.702	1.101
Y1.2	0.589	0.874	0.684	1.266
Y1.3	0.610	0.826	0.640	1.045
Y1.4	0.595	0.851	0.690	1.130
Y1.5	0.564	0.852	0.624	1.230
Y1.6	0.538	0.930	0.704	1.345
Y1.7	0.544	0.907	0.730	1.094
Y1.8	0.482	0.906	0.749	1.140
Y1.9	0.510	0.937	0.736	1.289